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FILE COVERS 1907 - 30 Aug 2002 VOL 137 ISS 10
FILE LAST UPDATED: 29 Aug 2002 (20020829/ED)

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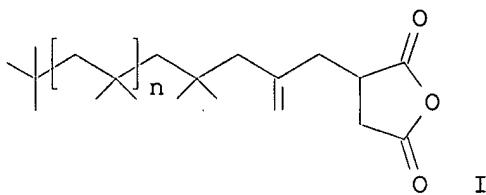
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=> d all hitstr tot

L145 ANSWER 1 OF 11 HCAPLUS COPYRIGHT 2002 ACS
AN 2002:426622 HCAPLUS
DN 137:24135
TI Cosmetic compositions comprising alkyl or alkenyl derivatives of succinic acid
IN Klug, Peter; Henning, Torsten; Scherl, Franz
Xaver
PA Clariant GmbH, Germany
SO Eur. Pat. Appl., 12 pp.
CODEN: EPXXDW
DT Patent
LA German
IC ICM A61K007-00
ICS A61K007-48; A61K009-00; A61K009-107
CC 62-4 (Essential Oils and Cosmetics)
Section cross-reference(s): 63

FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
	-----	-----	-----	-----	-----
PI	EP 1210929	A2	20020605	EP 2001-127510	20011117 <--
	R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL, TR				
	DE 10059318	A1	20020620	DE 2000-10059318	20001129 <--
	JP 2002173411	A2	20020621	JP 2001-290983	20010925 <--
PRAI	DE 2000-10059318	A	20001129	<--	
GI					



AB The invention pertains to cosmetic and pharmaceutical agents contg. at least one **emulsifier**, comprising (a) at least one alkyl chain produced by polymn. of (C2-5)-alkenes and/or an alkenyl chain with at least 28 C, which is coupled to (b) at least one carboxylic acid, carboxylic acid deriv., carboxyanhydride, carboxyanhydride deriv., ester, and/or amide group. As **emulsifier** is preferred compds. of formula (I), where $n \geq 4$. The compns. may be used in night creams, sunscreens, etc.

ST cosmetic sunscreen **emulsifier succinate** deriv

IT Polyoxyalkylenes, biological studies
 RL: COS (Cosmetic use); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)
 (alkyl/alkenylpolyisobutenylsuccinic derivs.; cosmetic compns. comprising alkyl or alkenyl derivs. of **succinic acid**)

IT Cosmetics
Emulsifying agents
 Health products
 Sunscreens
 (cosmetic compns. comprising alkyl or alkenyl derivs. of **succinic acid**)

IT Cosmetics
 (creams; cosmetic compns. comprising alkyl or alkenyl derivs. of **succinic acid**)

IT Cosmetics
 (emulsions; cosmetic compns. comprising alkyl or alkenyl derivs. of **succinic acid**)

IT Cosmetics
 (gels; cosmetic compns. comprising alkyl or alkenyl derivs. of **succinic acid**)

IT Cosmetics
 (lotions; cosmetic compns. comprising alkyl or alkenyl derivs. of **succinic acid**)

IT **Drug delivery systems**
 (ointments; cosmetic compns. comprising alkyl or alkenyl derivs. of **succinic acid**)

IT Cosmetics
 (sprays; cosmetic compns. comprising alkyl or alkenyl derivs. of **succinic acid**)

IT 56-81-5DP, Glycerol, alkyl/alkenylpolyisobutenylsuccinic derivs. 100-37-8DP, Diethylethanolamine, alkyl/alkenylpolyisobutenylsuccinic derivs. 102-71-6DP, alkyl/alkenylpolyisobutenylsuccinic derivs. 108-30-5DP, Succinic anhydride, alkyl/alkenylpolyisobutenyl derivs. 112-35-6DP, Triethylene glycol monomethyl ether, alkyl/alkenylpolyisobutenylsuccinic derivs. 25322-68-3DP, Polyethylene glycol, alkyl/alkenylpolyisobutenylsuccinic derivs.
 RL: COS (Cosmetic use); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)
 (cosmetic compns. comprising alkyl or alkenyl derivs. of **succinic acid**)

IT 100-37-8, Diethylethanolamine 102-71-6, Triethanolamine, biological studies 110-15-6D, Succinic acid, alkyl and

alkenyl derivs. 170211-20-8, Hostacerin dgi
 RL: COS (Cosmetic use); THU (Therapeutic use); BIOL (Biological study);
 USES (Uses)

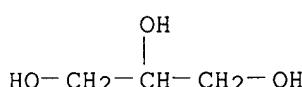
(cosmetic compns. comprising alkyl or alkenyl derivs. of
 succinic acid)

IT 56-81-5DP, Glycerol, alkyl/alkenylpolyisobutenylsuccinic
 derivs. 100-37-8DP, Diethylethanolamine, alkyl/
 alkenylpolyisobutenylsuccinic derivs. 102-71-6DP, alkyl/
 alkenylpolyisobutenylsuccinic derivs. 108-30-5DP,
 Succinic anhydride, alkyl/alkenylpolyisobutenyl derivs.
 112-35-6DP, Triethylene glycol monomethyl ether, alkyl/
 alkenylpolyisobutenylsuccinic derivs. 25322-68-3DP,
 Polyethylene glycol, alkyl/alkenylpolyisobutenylsuccinic derivs.
 RL: COS (Cosmetic use); SPN (Synthetic preparation); THU (Therapeutic
 use); BIOL (Biological study); PREP (Preparation); USES (Uses)

(cosmetic compns. comprising alkyl or alkenyl derivs. of
 succinic acid)

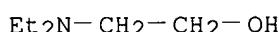
RN 56-81-5 HCAPLUS

CN 1,2,3-Propanetriol (9CI) (CA INDEX NAME)



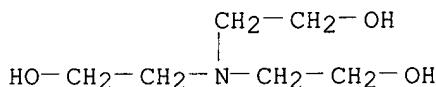
RN 100-37-8 HCAPLUS

CN Ethanol, 2-(diethylamino)- (8CI, 9CI) (CA INDEX NAME)



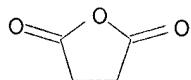
RN 102-71-6 HCAPLUS

CN Ethanol, 2,2',2''-nitrilotris- (9CI) (CA INDEX NAME)



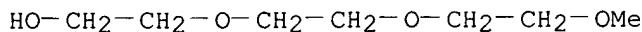
RN 108-30-5 HCAPLUS

CN 2,5-Furandione, dihydro- (9CI) (CA INDEX NAME)



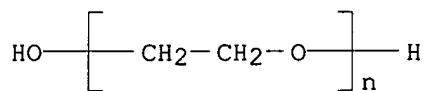
RN 112-35-6 HCAPLUS

CN Ethanol, 2-[2-(2-methoxyethoxy)ethoxy]- (6CI, 7CI, 8CI, 9CI) (CA INDEX
 NAME)



RN 25322-68-3 HCAPLUS

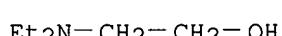
CN Poly(oxy-1,2-ethanediyl), .alpha.-hydro-.omega.-hydroxy- (9CI) (CA INDEX
 NAME)



IT 100-37-8, Diethylethanolamine 102-71-6, Triethanolamine, biological studies 110-15-6D, Succinic acid, alkyl and alkenyl derivs. 170211-20-8, Hostacerin dgi
 RL: COS (Cosmetic use); THU (Therapeutic use); BIOL (Biological study);
 USES (Uses)
 (cosmetic compns. comprising alkyl or alkenyl derivs. of succinic acid)

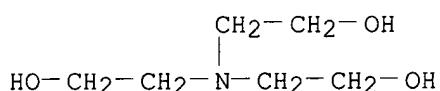
RN 100-37-8 HCAPLUS

CN Ethanol, 2-(diethylamino)- (8CI, 9CI) (CA INDEX NAME)



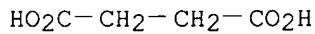
RN 102-71-6 HCAPLUS

CN Ethanol, 2,2',2'''-nitrilotris- (9CI) (CA INDEX NAME)



RN 110-15-6 HCAPLUS

CN Butanedioic acid (9CI) (CA INDEX NAME)



RN 170211-20-8 HCAPLUS

CN Isooctadecanoic acid, ester with oxybis[propanediol] (3:2) (9CI) (CA INDEX NAME)

CM 1

CRN 59113-36-9

CMF C6 H14 O5

CCI IDS, MAN

CDES 8:ID

*** STRUCTURE DIAGRAM IS NOT AVAILABLE ***

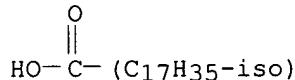
CM 2

CRN 30399-84-9

CMF C18 H36 O2

CCI IDS

CDES 8:ID, ISO



L145 ANSWER 2 OF 11 HCPLUS COPYRIGHT 2002 ACS

AN 2001:730528 HCPLUS

DN 135:278003

TI Compositions and methods for **gene therapy**

IN Vogel, Jean-marie; Boschetti, Egisto

PA Biosphere Medical Inc., USA

SO PCT Int. Appl., 77 pp.

CODEN: PIXXD2

DT Patent

LA English

IC ICM A61K009-00

CC 63-5 (Pharmaceuticals)

Section cross-reference(s): 8

FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	WO 2001072280	A2	20011004	WO 2001-US9618	20010323 <--
	WO 2001072280	A3	20020131		
		W:	AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM		
		RW:	GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG		

PRAI US 2000-191902P P 20000324 <--

AB The present invention relates to injectable compns. comprising biocompatible, swellable, substantially hydrophilic, non-toxic and substantially spherical polymeric material carriers which are capable of efficiently delivering bioactive therapeutic factor(s) phys. linked to a transfection agent for use in embolization gene therapy. The present invention further relates to methods of embolization gene therapy, particularly for the treatment of angiogenic and non-angiogenic-dependent diseases, using the injectable compns.

ST embolization gene therapy delivery polymer carrier

IT Lymphoma

(Burkitt's; compns. and methods for embolization gene therapy)

IT Bone, neoplasm

(Ewing's sarcoma; compns. and methods for embolization gene therapy)

IT Sarcoma

(Kaposi's; compns. and methods for embolization gene therapy)

IT Kidney, neoplasm

(Wilms'; compns. and methods for embolization gene therapy)

IT Leukemia

(acute lymphocytic; compns. and methods for embolization gene therapy)

IT Leukemia

(acute myelogenous; compns. and methods for embolization gene therapy)

IT Angiogenic factors

Growth inhibitors, animal

RL: PEP (Physical, engineering or chemical process); THU (Therapeutic use); BIOL (Biological study); PROC (Process); USES (Uses)

(angiogenic growth-inhibiting factors; compns. and methods for embolization gene therapy)

IT Polyelectrolytes

(anionic; compns. and methods for embolization gene therapy)

IT Intestine

(anus, carcinoma; compns. and methods for embolization gene therapy)

IT Astrocyte

(astrocytoma; compns. and methods for embolization gene therapy)

IT Bladder

Head

Mammary gland
Neck, anatomical
Ovary, neoplasm
Pancreas, neoplasm
Prostate gland
Testis
(carcinoma; compns. and methods for embolization gene therapy)

IT Drug delivery systems
(carriers; compns. and methods for embolization gene therapy)

IT Polyelectrolytes
(cationic; compns. and methods for embolization gene therapy)

IT Uterus, neoplasm
(cervix, carcinoma; compns. and methods for embolization gene therapy)

IT Leukemia
(chronic myelocytic; compns. and methods for embolization gene therapy)

IT Intestine, neoplasm
(colorectal carcinoma; compns. and methods for embolization gene therapy)

IT Angiogenesis
Angiogenesis inhibitors
Anti-inflammatory agents
Antibacterial agents
Antihistamines
Antitumor agents
Brain, neoplasm
Drug delivery systems
Drug targeting
Embolism
Gene targeting
Gene therapy
Genetic vectors
Hodgkin's disease
Kidney, neoplasm
Liver, neoplasm
Melanoma
Multiple myeloma
Neoplasm
Particle size distribution
Saponification
Surgery
Swelling, physical
Syringes
Transformation, genetic
(compns. and methods for embolization gene therapy)

IT Antisense DNA
Antisense RNA
DNA
Polyanhydrides
Polynucleotides
Polysaccharides, biological studies
Polysiloxanes, biological studies
Quaternary ammonium compounds, biological studies
RNA
Ribozymes
RL: PEP (Physical, engineering or chemical process); THU (Therapeutic use); BIOL (Biological study); PROC (Process); USES (Uses)
(compns. and methods for embolization gene therapy)

IT Imaging agents
(contrast; compns. and methods for embolization gene therapy)

IT Polyoxalkylenes, biological studies
RL: PEP (Physical, engineering or chemical process); POF (Polymer in formulation); THU (Therapeutic use); BIOL (Biological study); PROC (Process); USES (Uses)

IT (crosslinked; compns. and methods for embolization gene therapy)

IT Polymers, biological studies

IT RL: PEP (Physical, engineering or chemical process); THU (Therapeutic use); BIOL (Biological study); PROC (Process); USES (Uses)

IT (crosslinked; compns. and methods for embolization gene therapy)

IT Lymphoma

IT (diffuse large cell; compns. and methods for embolization gene therapy)

IT Embolism

IT (embolization; compns. and methods for embolization gene therapy)

IT **Drug delivery systems**

IT (emulsions; compns. and methods for embolization gene therapy)

IT Polymers, biological studies

IT RL: BPR (Biological process); BSU (Biological study, unclassified); PEP (Physical, engineering or chemical process); THU (Therapeutic use); BIOL (Biological study); PROC (Process); USES (Uses)

IT (gene carriers; compns. and methods for embolization gene therapy)

IT Leukemia

IT (hairy-cell; compns. and methods for embolization gene therapy)

IT Ribozymes

IT RL: PEP (Physical, engineering or chemical process); THU (Therapeutic use); BIOL (Biological study); PROC (Process); USES (Uses)

IT (hammerhead; compns. and methods for embolization gene therapy)

IT Liver, neoplasm

IT (hepatoma; compns. and methods for embolization gene therapy)

IT **Drug delivery systems**

IT (implants; compns. and methods for embolization gene therapy)

IT Mitosis

IT (inhibitors; compns. and methods for embolization gene therapy)

IT **Drug delivery systems**

IT (injections; compns. and methods for embolization gene therapy)

IT Polyesters, biological studies

IT RL: PEP (Physical, engineering or chemical process); THU (Therapeutic use); BIOL (Biological study); PROC (Process); USES (Uses)

IT (lactic acid-based; compns. and methods for embolization gene therapy)

IT Lymphoma

IT (lymphoblastic; compns. and methods for embolization gene therapy)

IT **Drug delivery systems**

IT (microparticles; compns. and methods for embolization gene therapy)

IT **Drug delivery systems**

IT (microspheres; compns. and methods for embolization gene therapy)

IT Lymphoma

IT (non-Hodgkin's; compns. and methods for embolization gene therapy)

IT Lung, neoplasm

IT (non-small-cell carcinoma; compns. and methods for embolization gene therapy)

IT Bone, neoplasm

IT (osteosarcoma; compns. and methods for embolization gene therapy)

IT p53 (protein)

IT RL: PEP (Physical, engineering or chemical process); THU (Therapeutic use); BIOL (Biological study); PROC (Process); USES (Uses)

IT (polynucleotide encoding; compns. and methods for embolization gene therapy)

IT Myoma

IT (rhabdomyosarcoma; compns. and methods for embolization gene therapy)

IT Lung, neoplasm

IT (small-cell carcinoma; compns. and methods for embolization gene therapy)

IT Animal tissue

IT (soft, sarcoma; compns. and methods for embolization gene therapy)

IT Neoplasm

IT (solid; compns. and methods for embolization gene therapy)

IT Polymers, biological studies

RL: PEP (Physical, engineering or chemical process); POF (Polymer in formulation); THU (Therapeutic use); BIOL (Biological study); PROC (Process); USES (Uses)
 (swellable; compns. and methods for embolization gene therapy)

IT 7439-89-6, Iron, uses 7439-95-4, Magnesium, uses 7440-09-7, potassium, uses 7440-23-5, Sodium, uses 7440-66-6, Zinc, uses 7440-70-2, Calcium, uses 7664-41-7, Ammonia, uses
 RL: NUU (Other use, unclassified); USES (Uses)
 (compns. and methods for embolization gene therapy)

IT 79-10-7D, **Acrylic** acid, esters 557-75-5D, Vinyl alcohol, copolymers 7446-81-3D, Sodium **acrylate**, polymers 9003-04-7, Sodium **polyacrylate** 24980-58-3, **Acrylic** acid-vinyl acetate copolymer 25969-89-5, Methyl maleate-vinyl acetate copolymer 107830-79-5, **Acrylonitrile** starch graft copolymer
 RL: PEP (Physical, engineering or chemical process); POF (Polymer in formulation); THU (Therapeutic use); BIOL (Biological study); PROC (Process); USES (Uses)
 (compns. and methods for embolization gene therapy)

IT 71-44-3, Spermine 124-20-9, Spermidine 557-75-5D, Vinyl alcohol, polymers 2462-63-7, Dope 4004-05-1, Dope 9002-98-6, Polyethylenimine 9003-01-4D, **Polyacrylic** acid, derivs. 9003-05-8D, **Polyacrylamide**, derivs. 24937-78-8, Poly(ethylene vinyl acetate) 25104-18-1, Polylysine 26023-30-3, Poly[oxy(1-methyl-2-oxo-1,2-ethanediyl)] 26100-51-6, Poly(lactic acid) 26913-06-4, Polyethylenimine 38000-06-5, Polylysine 124050-77-7, Transfectam 124076-29-5 127528-05-6 128835-92-7, Lipofectin 137056-72-5, dc-chol 144189-73-1, Dotap 145310-87-8, Transfectace
 RL: PEP (Physical, engineering or chemical process); THU (Therapeutic use); BIOL (Biological study); PROC (Process); USES (Uses)
 (compns. and methods for embolization gene therapy)

IT 110-26-9, **Methylene bis-acrylamide**
 RL: RCT (Reactant); RACT (Reactant or reagent)
 (compns. and methods for embolization gene therapy)

IT 98085-27-9
 RL: THU (Therapeutic use); BIOL (Biological study); USES (Uses)
 (contrast agent; compns. and methods for embolization gene therapy)

IT 26426-80-2, **Isobutylene-maleic** anhydride copolymer
 RL: PEP (Physical, engineering or chemical process); POF (Polymer in formulation); THU (Therapeutic use); BIOL (Biological study); PROC (Process); USES (Uses)
 (cross-linked; compns. and methods for embolization gene therapy)

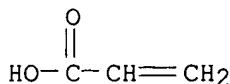
IT 25322-68-3, Polyethylene oxide
 RL: PEP (Physical, engineering or chemical process); POF (Polymer in formulation); THU (Therapeutic use); BIOL (Biological study); PROC (Process); USES (Uses)
 (crosslinked; compns. and methods for embolization gene therapy)

IT 97-90-5, Ethylene glycol **dimethacrylate** 109-17-1, Tetraethylene glycol **dimethacrylate** 2359-15-1, Methylene bis-**methacrylamide** 17831-71-9, Tetraethylene glycol **diacrylate** 26846-58-2, Pentaerythritol **dimethacrylate** 58477-85-3
 RL: RCT (Reactant); RACT (Reactant or reagent)
 (crosslinking agent; compns. and methods for embolization gene therapy)

IT 79-10-7D, **Acrylic** acid, esters
 RL: PEP (Physical, engineering or chemical process); POF (Polymer in formulation); THU (Therapeutic use); BIOL (Biological study); PROC (Process); USES (Uses)
 (compns. and methods for embolization gene therapy)

RN 79-10-7 HCPLUS

CN 2-Propenoic acid (9CI) (CA INDEX NAME)



IT 26426-80-2, Isobutylene-maleic anhydride copolymer

RL: PEP (Physical, engineering or chemical process); POF (Polymer in formulation); THU (Therapeutic use); BIOL (Biological study); PROC (Process); USES (Uses)

(cross-linked; compns. and methods for embolization gene therapy)

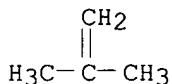
RN 26426-80-2 HCPLUS

CN 2,5-Furandione, polymer with 2-methyl-1-propene (9CI) (CA INDEX NAME)

CM 1

CRN 115-11-7

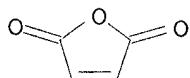
CMF C4 H8



CM 2

CRN 108-31-6

CMF C4 H2 O3



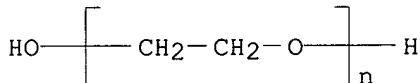
IT 25322-68-3, Polyethylene oxide

RL: PEP (Physical, engineering or chemical process); POF (Polymer in formulation); THU (Therapeutic use); BIOL (Biological study); PROC (Process); USES (Uses)

(crosslinked; compns. and methods for embolization gene therapy)

RN 25322-68-3 HCPLUS

CN Poly(oxy-1,2-ethanediyl), .alpha.-hydro-.omega.-hydroxy- (9CI) (CA INDEX NAME)



L145 ANSWER 3 OF 11 HCPLUS COPYRIGHT 2002 ACS

AN 2001:152452 HCPLUS

DN 134:183314

TI PEG compositions for reducing skin irritation and sting from weak carboxylic acids

IN Mukherjee, Surajit; Rick, Donald; Habif, Stephan Samuel

PA Unilever PLC, UK; Unilever NV; Hindustan Lever Limited

SO PCT Int. Appl., 49 pp.

CODEN: PIXXD2

DT Patent

LA English

IC ICM A61K007-48

CC 62-4 (Essential Oils and Cosmetics)

FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	WO 2001013877	A1	20010301	WO 2000-EP7303	20000731 <--
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				RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG	

PRAI US 1999-150112P P 19990820 <--

AB A method for reducing skin irritation and/or sting that may be caused by a weak carboxylic acid by adding polyethylene glycol (PEG). Addn. of PEG lowers irritation and sting without reducing the delivery of weak acids to skin tissues.

ST PEG carboxylic acid skin irritation; cosmetic carboxylic acid irritation
PEG

IT Carboxylic acids, biological studies

RL: ADV (Adverse effect, including toxicity); BUU (Biological use, unclassified); BIOL (Biological study); USES (Uses)
(PEG compns. for reducing skin irritation and sting from weak carboxylic acids)

IT Polyoxyalkylenes, biological studies

RL: BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); BUU (Biological use, unclassified); BIOL (Biological study); USES (Uses)
(PEG compns. for reducing skin irritation and sting from weak carboxylic acids)

IT Cosmetics

(emulsions; PEG compns. for reducing skin irritation and sting from weak carboxylic acids)

IT Skin, disease

(irritation; PEG compns. for reducing skin irritation and sting from weak carboxylic acids)

IT 50-21-5, Lactic acid, biological studies 50-81-7, Ascorbic acid, biological studies 64-19-7, Acetic acid, biological studies 69-72-7, Salicylic acid, biological studies 77-92-9, Citric acid, biological studies 79-14-1, Glycolic acid, biological studies 110-15-6, Succinic acid, biological studies 300-85-6, .beta.-

Hydroxybutyric acid 471-47-6, Oxamic acid 6915-15-7, Malic acid

RL: ADV (Adverse effect, including toxicity); BUU (Biological use, unclassified); BIOL (Biological study); USES (Uses)
(PEG compns. for reducing skin irritation and sting from weak carboxylic acids)

IT 25322-68-3, Peg

RL: BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); BUU (Biological use, unclassified); BIOL (Biological study); USES (Uses)

(PEG compns. for reducing skin irritation and sting from weak carboxylic acids)

RE.CNT 10 THERE ARE 10 CITED REFERENCES AVAILABLE FOR THIS RECORD

RE

(1) Anon; PATENT ABSTRACTS OF JAPAN 1980, V004(069), PC-011

(2) Epstein, H; US 5885593 A 1999 HCPLUS

(3) Mather, K; US 5925679 A 1999 HCPLUS

(4) Oota, A; JP 55035025 A 1980 HCPLUS

(5) Pathak, C; US 5879688 A 1999 HCPLUS

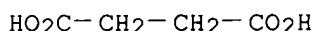
(6) Quemin, E; US 5736567 A 1998 HCPLUS
 (7) Unilever Plc; EP 0729745 A 1996 HCPLUS
 (8) Unilever Plc; WO 9938488 A 1999 HCPLUS
 (9) Vargas, A; US 5935584 A 1999 HCPLUS
 (10) Woller, W; US 5320838 A 1994 HCPLUS

IT 110-15-6, **Succinic acid, biological studies**

RL: ADV (Adverse effect, including toxicity); BUU (Biological use, unclassified); BIOL (Biological study); USES (Uses)
 (PEG compns. for reducing skin irritation and sting from weak carboxylic acids)

RN 110-15-6 HCPLUS

CN Butanedioic acid (9CI) (CA INDEX NAME)

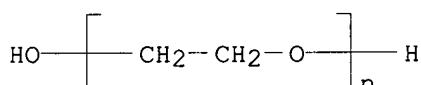


IT 25322-68-3, **Peg**

RL: BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); BUU (Biological use, unclassified); BIOL (Biological study); USES (Uses)
 (PEG compns. for reducing skin irritation and sting from weak carboxylic acids)

RN 25322-68-3 HCPLUS

CN Poly(oxy-1,2-ethanediyl), .alpha.-hydro-.omega.-hydroxy- (9CI) (CA INDEX NAME)



L145 ANSWER 4 OF 11 HCPLUS COPYRIGHT 2002 ACS

AN 2000:113123 HCPLUS

DN 132:156518

TI Derivatized polymers of .alpha.-olefin-maleic anhydride alkyl half-ester or full acid for hair sprays

IN Ulmer, Herbert W.; Gillece, Timothy; Katirgis, John A.; Foltis, Linda C.; Blaine, April

PA ISP Investments Inc., USA

SO U.S., 5 pp., Cont.-in-part of U.S. 5,869,695.

CODEN: USXXAM

DT Patent

LA English

IC ICM C10M133-16

ICS C07D207-40

NCL 548545000

CC 62-3 (Essential Oils and Cosmetics)

Section cross-reference(s): 38

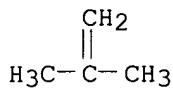
FAN.CNT 5

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	US 6025501	A	20000215	US 1998-103856	19980624 <--
	US 5869695	A	19990209	US 1997-845669	19970425 <--
	WO 9849143	A1	19981105	WO 1998-US4240	19980304 <--
	W: AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CU, CZ, DE, DK, EE, ES, FI, GB, GE, GH, GM, GW, HU, ID, IL, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, UA, UG, UZ, VN, YU, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM				
	RW: GH, GM, KE, LS, MW, SD, SZ, UG, ZW, AT, BE, CH, DE, DK, ES, FI,				

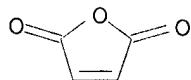
FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI, CM,
 GA, GN, ML, MR, NE, SN, TD, TG
 WO 9967216 A1 19991229 WO 1999-US9430 19990429 <--
 W: AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CU, CZ, DE,
 DK, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP,
 KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MD, MG, MK, MN,
 MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM,
 TR, TT, UA, UG, UZ, VN, YU, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM
 RW: GH, GM, KE, LS, MW, SD, SL, SZ, UG, ZW, AT, BE, CH, CY, DE, DK,
 ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG,
 CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG
 AU 9937749 A1 20000110 AU 1999-37749 19990429 <--
 EP 1098877 A1 20010516 EP 1999-920192 19990429 <--
 R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT,
 IE, FI
 JP 2002518554 T2 20020625 JP 2000-555870 19990429 <--
 PRAI US 1997-845669 A2 19970425 <--
 WO 1998-US4240 W 19980304 <--
 US 1998-103386 A 19980624 <--
 US 1998-103856 A 19980624 <--
 US 1998-104309 A 19980624 <--
 WO 1999-US9430 W 19990429 <--
 AB Derivatized polymers of .alpha.-olefin-**maleic** anhydride alkyl
 half-ester or full acid, preferably the **isobutylene** compd.,
 optionally with repeat units of maleamic acid and/or its corresponding
 maleimide therein are described. These polymers are useful as fixatives
 in personal care products, such as hair spray compns., particularly as
 one-phase, low VOC formulations in pump and aerosol systems, and in
 anhyd., alc., aq.-alc. and in high hydrocarbon tolerant solvent
 formulations. In use, these hair spray compns. dry down to form clear,
 continuous and defectless films. Poly(**isobutylene**-
maleic anhydride) (I) was prep'd. by the copolymn. of
isobutylene with **maleic** anhydride. A hydroalcoholic
 aerosol hair spray contained SD alc. 40B 200 52.50, imidized I 12.50 (40%
 solids, 27% H₂O, 33% EtOH) di-Me ether 35.00, and resin solids 5%.
 ST hair spray olefin **maleic** anhydride polymer
 IT Hair preparations
 (sprays; derivatized polymers of olefin-**maleic** anhydride
 alkyl half-ester or full acid for hair sprays)
 IT Alkenes, biological studies
 RL: BUU (Biological use, unclassified); SPN (Synthetic preparation); BIOL
 (Biological study); PREP (Preparation); USES (Uses)
 (.alpha.-, copolymers with **maleic** anhydride; derivatized
 polymers of olefin-**maleic** anhydride alkyl half-ester or full
 acid for hair sprays)
 IT 108-31-6DP, **Maleic** anhydride, copolymers with .alpha.-olefins
 26426-80-2P, **Isobutylene-maleic** anhydride
 copolymer
 RL: BUU (Biological use, unclassified); SPN (Synthetic preparation); BIOL
 (Biological study); PREP (Preparation); USES (Uses)
 (derivatized polymers of olefin-**maleic** anhydride alkyl
 half-ester or full acid for hair sprays)
 RE.CNT 2 THERE ARE 2 CITED REFERENCES AVAILABLE FOR THIS RECORD
 RE
 (1) Ulmer; US 5869695 1999 HCPLUS
 (2) Ulmer; US 5886194 1999 HCPLUS
 IT 26426-80-2P, **Isobutylene-maleic** anhydride
 copolymer
 RL: BUU (Biological use, unclassified); SPN (Synthetic preparation); BIOL
 (Biological study); PREP (Preparation); USES (Uses)
 (derivatized polymers of olefin-**maleic** anhydride alkyl
 half-ester or full acid for hair sprays)
 RN 26426-80-2 HCPLUS

CN 2,5-Furandione, polymer with 2-methyl-1-propene (9CI) (CA INDEX NAME)

CM 1

CRN 115-11-7
CMF C4 H8

CM 2

CRN 108-31-6
CMF C4 H2 O3

L145 ANSWER 5 OF 11 HCAPLUS COPYRIGHT 2002 ACS

AN 1999:819348 HCAPLUS

DN 132:54590

TI Derivatized polymers of **alpha**-olefin-**maleic** anhydride for cosmetic formulations

IN Ulmer, Herbert W.; Gillece, Timothy; Katirgis, John A.; Foltis, Linda C.; Blaine, April

PA Isp Investments Inc., USA

SO PCT Int. Appl., 25 pp.

CODEN: PIXXD2

DT Patent

LA English

IC ICM C07D207-40

ICS A61K007-06; A61K031-74

CC 62-3 (Essential Oils and **Cosmetics**)

Section cross-reference(s): 37

FAN.CNT 5

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	WO 9967216	A1	19991229	WO 1999-US9430	19990429 <--
	W: AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CU, CZ, DE, DK, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, UA, UG, UZ, VN, YU, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM				
	RW: GH, GM, KE, LS, MW, SD, SL, SZ, UG, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG				
	US 5886194	A	19990323	US 1998-103386	19980624 <--
	US 5959122	A	19990928	US 1998-104309	19980624 <--
	US 6025501	A	20000215	US 1998-103856	19980624 <--
	AU 9937749	A1	20000110	AU 1999-37749	19990429 <--
	EP 1098877	A1	20010516	EP 1999-920192	19990429 <--
	R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, FI				
	JP 2002518554	T2	20020625	JP 2000-555870	19990429 <--
PRAI	US 1998-103386	A	19980624	<--	

US 1998-103856 A 19980624 <--
 US 1998-104309 A 19980624 <--
 US 1997-845669 A2 19970304 <--
 WO 1998-US4240 W 19980304 <--
 WO 1999-US9430 W 19990429 <--

AB Derivatized polymers of **.alpha.-olefin-maleic** anhydride alkyl half-ester or full acid, preferably the **isobutylene** compd., optionally with repeat units of maleamic acid and/or its corresponding maleimide are described. These polymers are useful as fixatives in personal care products, such as hair spray compns., particularly as 1-phase, low VOC formulations in pump and aerosol systems, and in anhyd., alc., aq.-alc. and in high hydrocarbon tolerant solvent formulations. These hair spray compns. dry down to form clear, continuous and defectless films. **Maleic** anhydride was mixed with decanoyl peroxide as initiator, octadecyl vinyl ether as suspending agent and pentane as solvent in a sealed reactor under N. The reactor was heated to 80.degree. over a 30-min period. At 80.degree., **isobutylene** monomer was fed into the reactor over a 4-h period. The resultant product was a finely divided, off-white slurry of poly(**isobutylene-maleic** anhydride) copolymer in pentane. The above polymer was allowed to with octadecylamine in EtOH at 50-100.degree.. On cooling, the polymer had an acid no. of 225 mg KOH/g polymer. A single-phase hydroalc. aerosol hair spray formulation contained anhyd. alc. 52.50, the above polymer (40% solids, 27% H2O, and 33% EtOH) 12.50, and di-Me ether 35.00%.

ST **isobutylene maleic** anhydride copolymer hair spray
 prep; amine **isobutylene maleic** anhydride copolymer
 spray prep

IT Cosmetics

(derivatized polymers of **.alpha.-olefin-maleic** anhydride for cosmetic formulations)

IT Hair preparations

(gels; derivatized polymers of **.alpha.-olefin-maleic** anhydride for cosmetic formulations)

IT Hair preparations

(mousses; derivatized polymers of **.alpha.-olefin-maleic** anhydride for cosmetic formulations)

IT Amines, biological studies

RL: BUU (Biological use, unclassified); SPN (Synthetic preparation); BIOL (Biological study); PREP (Preparation); USES (Uses)
 (reaction products, with poly(**isobutylene-co-maleic** anhydride); derivatized polymers of **.alpha.-olefin-maleic** anhydride for cosmetic formulations)

IT Hair preparations

(sprays; derivatized polymers of **.alpha.-olefin-maleic** anhydride for cosmetic formulations)

IT 75-04-7DP, Ethylamine, reaction products with poly(**isobutylene-co-maleic** anhydride) 104-75-6DP, 2-Ethylhexylamine, reaction products with poly(**isobutylene-co-maleic** anhydride)

109-73-9DP, n-Butylamine, reaction products with poly(**isobutylene-co-maleic** anhydride) 111-86-4DP, n-Octylamine, reaction products with poly(**isobutylene-co-maleic** anhydride)

124-22-1DP, n-Dodecylamine, reaction products with poly(**isobutylene-co-maleic** anhydride) 124-30-1DP,

n-Octadecylamine, reaction products with poly(**isobutylene-co-maleic** anhydride) 141-43-5DP, Ethanolamine, reaction products with poly(**isobutylene-co-maleic** anhydride)

156-87-6DP, 3-Amino-1-propanol, reaction products with poly(**isobutylene-co-maleic** anhydride) 26426-80-2DP,

Isobutylene-maleic anhydride copolymer, reaction products with primary amines

RL: BUU (Biological use, unclassified); SPN (Synthetic preparation); BIOL (Biological study); PREP (Preparation); USES (Uses)

(derivatized polymers of **.alpha.-olefin-maleic** anhydride for

cosmetic formulations)

IT 26426-80-2P, Isobutylene-maleic anhydride copolymer
 RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)
 (derivatized polymers of .alpha.-olefin-maleic anhydride for cosmetic formulations)

RE.CNT 1 THERE ARE 1 CITED REFERENCES AVAILABLE FOR THIS RECORD

RE

(1) Ulmer; US 5886194 A 1999 HCPLUS

IT 26426-80-2DP, Isobutylene-maleic anhydride copolymer, reaction products with primary amines
 RL: BUU (Biological use, unclassified); SPN (Synthetic preparation); BIOL (Biological study); PREP (Preparation); USES (Uses)
 (derivatized polymers of .alpha.-olefin-maleic anhydride for cosmetic formulations)

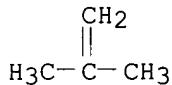
RN 26426-80-2 HCPLUS

CN 2,5-Furandione, polymer with 2-methyl-1-propene (9CI) (CA INDEX NAME)

CM 1

CRN 115-11-7

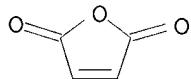
CMF C4 H8



CM 2

CRN 108-31-6

CMF C4 H2 O3



IT 26426-80-2P, Isobutylene-maleic anhydride copolymer
 RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)
 (derivatized polymers of .alpha.-olefin-maleic anhydride for cosmetic formulations)

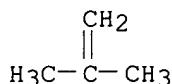
RN 26426-80-2 HCPLUS

CN 2,5-Furandione, polymer with 2-methyl-1-propene (9CI) (CA INDEX NAME)

CM 1

CRN 115-11-7

CMF C4 H8



CM 2

CRN 108-31-6
CMF C4 H2 O3

L145 ANSWER 6 OF 11 HCPLUS COPYRIGHT 2002 ACS
 AN 1999:215549 HCPLUS
 DN 130:242122
 TI Hydroxyamino-derivatized polymers of **olefin-maleic anhydride**
 IN Ulmer, Herbert W.; Gillece, Timothy; Katirgis, John A.
 PA ISP Investments Inc., USA
 SO U.S., 5 pp., Cont.-in-part of U.S. 845,669.
 CODEN: USXXAM
 DT Patent
 LA English
 IC C10M133-16; C07D207-40
 NCL 548545000
 CC 62-1 (Essential Oils and Cosmetics)
 Section cross-reference(s): 35

FAN.CNT 5

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	US 5886194	A	19990323	US 1998-103386	19980624 <--
	US 5869695	A	19990209	US 1997-845669	19970425 <--
	WO 9967216	A1	19991229	WO 1999-US9430	19990429 <--
	W: AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CU, CZ, DE, DK, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, UA, UG, UZ, VN, YU, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM RW: GH, GM, KE, LS, MW, SD, SL, SZ, UG, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG				
	AU 9937749	A1	20000110	AU 1999-37749	19990429 <--
	EP 1098877	A1	20010516	EP 1999-920192	19990429 <--
	R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, FI				
	JP 2002518554	T2	20020625	JP 2000-555870	19990429 <--
PRAI	US 1997-845669	A2	19970304	<--	
	US 1998-103386	A	19980624	<--	
	US 1998-103856	A	19980624	<--	
	US 1998-104309	A	19980624	<--	
	WO 1999-US9430	W	19990429	<--	

AB This invention describes hydroxyamino-derivatized polymers of **.alpha.-olefin-maleic anhydride** in the form of their maleimide, maleamic acid and **.alpha.-olefin-maleic anhydride** half-acid/half ester or full acid repeat units process for making same. The polymers are made by reacting an **.alpha.-olefin-maleic anhydride**, half-acid/half-ester or full acid with a hydroxy contg. **.alpha.-unsubstituted primary amine** in aq. or aq. alc. soln. at a temp. of about 60.degree.-160.degree. C. during a reaction period of about 1-25 h. **Isobutylene-maleic anhydride** copolymers was treated with N-butylamine and ethanolamine in EtOH to give a polymer with a predominance of maleimide repeating units over maleamic acid units.

ST **olefin maleic anhydride** polymer hydroxyamino

IT Cosmetics

(hydroxyamino-derivatized polymers of olefin-maleic anhydride)

IT 75-04-7DP, Ethylamine, reaction products with **isobutylene-maleic anhydride** copolymer 109-73-9DP, n-Butylamine, reaction products with **isobutylene-maleic anhydride** copolymer 124-22-1DP, Dodecylamine, reaction products with **isobutylene-maleic anhydride** copolymer 141-43-5DP, Ethanolamine, reaction products with **isobutylene-maleic anhydride** copolymer 156-87-6DP, 3-Amino-1-propanol, reaction products with **isobutylene-maleic anhydride** copolymer **26426-80-2DP**, **Isobutylene-maleic anhydride** copolymer, aminolyzed 68335-16-0DP, aminolyzed

RL: BUU (Biological use, unclassified); PRP (Properties); SPN (Synthetic preparation); BIOL (Biological study); PREP (Preparation); USES (Uses) (hydroxyamino-derivatized polymers of olefin-maleic anhydride)

RE.CNT 1 . THERE ARE 1 CITED REFERENCES AVAILABLE FOR THIS RECORD

RE

(1) Gutierrez; US 4839072 1989 HCPLUS

IT **26426-80-2DP, Isobutylene-maleic anhydride** copolymer, aminolyzed

RL: BUU (Biological use, unclassified); PRP (Properties); SPN (Synthetic preparation); BIOL (Biological study); PREP (Preparation); USES (Uses) (hydroxyamino-derivatized polymers of olefin-maleic anhydride)

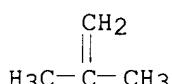
RN 26426-80-2 HCPLUS

CN 2,5-Furandione, polymer with 2-methyl-1-propene (9CI) (CA INDEX NAME)

CM 1

CRN 115-11-7

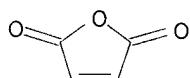
CMF C4 H8



CM 2

CRN 108-31-6

CMF C4 H2 O3



L145 ANSWER 7 OF 11 HCPLUS COPYRIGHT 2002 ACS

AN 1998:531618 HCPLUS

DN 129:293780

TI Drug release from intelligent poly(**methacrylic acid**)-l-**polyisobutylene** polyelectrolyte amphiphilic **conetworks**

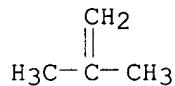
AU Janecka, Akos; Ivan, Bela

CS Institute of Chemistry, Chemical Research Center of the Hungarian Academy of Sciences, Pusztaszeri, H-1525, Hung.

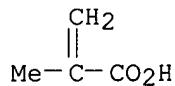
SO Polymer Preprints (American Chemical Society, Division of Polymer Chemistry) (1998), 39(2), 208-209

CODEN: ACPPAY; ISSN: 0032-3934
 PB American Chemical Society, Division of Polymer Chemistry
 DT Journal
 LA English
 CC 63-5 (Pharmaceuticals)
 AB Poly(methacrylic acid)-linked-polyisobutylene
 amphiphilic polyelectrolyte conetworks were prep'd. Sustained drug release
 was obsd. with theophylline with a sample contg. 50%
 polyisobutylene.
 ST sustained drug release polymethacrylic acid
 polyisobutylene
 IT Dissolution rate
 Polyelectrolytes
 (drug release from intelligent poly(methacrylic acid)-linked-
 polyisobutylene polyelectrolyte amphiphilic conetworks)
 IT Drug delivery systems
 (sustained-release; drug release from intelligent poly(methacrylic acid)-linked-
 polyisobutylene polyelectrolyte amphiphilic conetworks)
 IT 54406-39-2P, 1-Propene, 2-methyl-, polymer with
 2-methyl-2-propenoic acid
 RL: PRP (Properties); SPN (Synthetic preparation); THU (Therapeutic
 use); BIOL (Biological study); PREP (Preparation); USES (Uses)
 (drug release from intelligent poly(methacrylic acid)-linked-
 polyisobutylene polyelectrolyte amphiphilic conetworks)
 IT 58-55-9, Theophylline, biological studies
 RL: PRP (Properties); THU (Therapeutic use); BIOL (Biological study); USES
 (Uses)
 (drug release from intelligent poly(methacrylic acid)-linked-
 polyisobutylene polyelectrolyte amphiphilic conetworks)
 IT 54406-39-2P, 1-Propene, 2-methyl-, polymer with
 2-methyl-2-propenoic acid
 RL: PRP (Properties); SPN (Synthetic preparation); THU (Therapeutic
 use); BIOL (Biological study); PREP (Preparation); USES (Uses)
 (drug release from intelligent poly(methacrylic acid)-linked-
 polyisobutylene polyelectrolyte amphiphilic conetworks)
 RN 54406-39-2 HCAPLUS
 CN 2-Propenoic acid, 2-methyl-, polymer with 2-methyl-1-propene (9CI) (CA
 INDEX NAME)

CM 1

 CRN 115-11-7
 CMF C4 H8


CM 2

 CRN 79-41-4
 CMF C4 H6 O2


L145 ANSWER 8 OF 11 HCPLUS COPYRIGHT 2002 ACS

AN 1996:188933 HCPLUS

DN 124:233491

TI **Modified maleic acid copolymers and their use as drug carrier**

IN Waki, Kazunori; Shiino, Taijiro; Sakurai, Yasuhisa; Okano, Mitsuo;

Kataoka, Kazunori; Koyama, Yoshuki; Ishihara, Shoji

PA Nippon Oils & Fats Co Ltd, Japan

SO Jpn. Kokai Tokkyo Koho, 14 pp.

CODEN: JKXXAF

DT Patent

LA Japanese

IC ICM C08F008-32

ICS A61K047-32; C08F022-06

CC 35-8 (Chemistry of Synthetic High Polymers)

Section cross-reference(s): 63

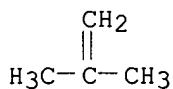
FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	JP 07330824	A2	19951219	JP 1994-133291	19940615 <--
AB	Random copolymers of maleic anhydride and other vinyl monomers having a maleic acid/vinyl monomer ratio of 1:0.01 to 1:100 are modified with a functional group contg. fluoroalkylphenylboric acid through amide linkages. The modified polymers have mol. wt. 1,000-1,000,000 and are designed as drug carrier for gastrointestinal drugs. One such polymer was synthesized by polymg. maleic anhydride (0.1 mol) and N-vinylpyrrolidone (0.1 mol) followed by reacting the polymer with 3-aminoacetylaminoo-6-heptafluoropropylphenylboric acid; adhesion property of the polymer to intestinal tissue was tested.				
ST	maleic acid vinyl polymer modification; phenylboric acid fluoro maleic polymer; pharmaceutical drug carrier intestinal				
IT	Pharmaceuticals (gastrointestinal drugs contg. modified maleic acid copolymers as drug carrier)				
IT	Pharmaceutical dosage forms (carriers, modified maleic acid copolymers and their use as drug carrier)				
IT	9011-07-8DP, Maleic anhydride-vinyl acetate copolymer, reaction products 9011-13-6DP, Maleic anhydride-styrene copolymer, reaction products 26426-80-2DP, Isobutene - maleic anhydride copolymer, reaction products 62849-65-4DP, Maleic anhydride-N-vinylpyrrolidone copolymer, reaction products 174778-59-7DP, reaction products with maleic acid copolymers 174778-60-0DP, reaction products with maleic acid copolymers 174778-61-1DP, reaction products with maleic acid copolymers RL: PRP (Properties); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses) (modified maleic acid copolymers and their use as drug carrier)				
IT	9011-07-8P, Maleic anhydride-vinyl acetate copolymer 9011-13-6P, Maleic anhydride-styrene copolymer 26426-80-2P, Isobutene - maleic anhydride copolymer 62849-65-4P, Maleic anhydride-N-vinylpyrrolidone copolymer RL: PRP (Properties); RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent) (prepn. of modified maleic acid copolymers)				
IT	26426-80-2DP, Isobutene - maleic anhydride copolymer, reaction products RL: PRP (Properties); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses) (modified maleic acid copolymers and their use as drug				

carrier)
 RN 26426-80-2 HCPLUS
 CN 2,5-Furandione, polymer with 2-methyl-1-propene (9CI) (CA INDEX NAME)

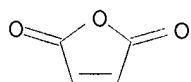
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CRN 115-11-7
 CMF C4 H8



CM 2

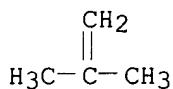
CRN 108-31-6
 CMF C4 H2 O3



IT 26426-80-2P, Isobutene-maleic anhydride copolymer
 RL: PRP (Properties); RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)
 (prepn. of modified maleic acid copolymers)
 RN 26426-80-2 HCPLUS
 CN 2,5-Furandione, polymer with 2-methyl-1-propene (9CI) (CA INDEX NAME)

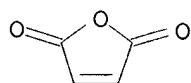
CM 1

CRN 115-11-7
 CMF C4 H8



CM 2

CRN 108-31-6
 CMF C4 H2 O3



L145 ANSWER 9 OF 11 HCPLUS COPYRIGHT 2002 ACS
 AN 1995:693749 HCPLUS
 DN 123:92943
 TI Transparent gel-type perfume compositions containing isobutylene

-maleic anhydride copolymer ammonium salt, polyamines, oxalate esters, and water

IN Taniguchi, Yasuo; Kuriki, Yoshihiro; Myawaki, Hideaki

PA Taiyo Koryo Kk, Japan

SO Jpn. Kokai Tokkyo Koho, 4 pp.

CODEN: JKXXAF

DT Patent

LA Japanese

IC ICM A61K007-46

ICA A61L009-01

CC 62-5 (Essential Oils and Cosmetics)

FAN.CNT 1

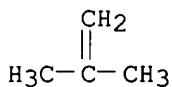
	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	JP 07126137	A2	19950516	JP 1993-275797	19931104 <--
AB	The title perfume compns. contain isobutylene-maleic anhydride copolymer ammonium salt 1.0-15.0, polyamines 0.01-3.0, oxalate esters 0.1-10.0, perfumes 0.01-15.0, and H ₂ O .gt;req.40.0 wt.%. The compns. inhibited NH ₃ generation and did not show color changes after prolonged storage. A perfume compn. was formulated from H ₂ O 72.7, Isobam A 6.0, C-2 (polyamine) 0.3, polyoxyethylene nonylphenyl ether 8.0, 3-methyl-3-methoxybutanol 5.0, and di-Et oxalate 3.0 g.				
ST	perfume isobutylene maleic anhydride copolymer; polyamine oxalate polymer perfume gel				
IT	Perfumes (transparent gel-type perfumes contg. isobutylene-maleic anhydride copolymer ammonium salt, polyamines, oxalate esters, and H ₂ O)				
IT	Amines, biological studies RL: BUU (Biological use, unclassified); BIOL (Biological study); USES (Uses) (poly-, transparent gel-type perfumes contg. isobutylene-maleic anhydride copolymer ammonium salt, polyamines, oxalate esters, and H ₂ O)				
IT	95-92-1, Diethyl oxalate 2050-60-4, Dibutyl oxalate 52032-17-4 , Isobutylene-maleic anhydride copolymer ammonium salt RL: BUU (Biological use, unclassified); BIOL (Biological study); USES (Uses) (transparent gel-type perfumes contg. isobutylene-maleic anhydride copolymer ammonium salt, polyamines, oxalate esters, and H ₂ O)				
IT	52032-17-4 , Isobutylene-maleic anhydride copolymer ammonium salt RL: BUU (Biological use, unclassified); BIOL (Biological study); USES (Uses) (transparent gel-type perfumes contg. isobutylene-maleic anhydride copolymer ammonium salt, polyamines, oxalate esters, and H ₂ O)				
RN	52032-17-4 HCPLUS				
CN	2,5-Furandione, polymer with 2-methyl-1-propene, ammonium salt (9CI) (CA INDEX NAME)				

CM 1

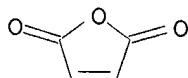
CRN 26426-80-2
CMF (C₄ H₈ . C₄ H₂ O₃)_x
CCI PMS

CM 2

CRN 115-11-7
CMF C₄ H₈



CM 3

CRN 108-31-6
CMF C4 H2 O3

L145 ANSWER 10 OF 11 HCAPLUS COPYRIGHT 2002 ACS

AN 1994:517312 HCAPLUS

DN 121:117312

TI Cosmetic composition containing **succinic** acid esters

IN Rawlings, Anthony Vincent; Rossall, Brian

PA Unilever PLC, UK; Unilever N. V.

SO PCT Int. Appl., 30 pp.

CODEN: PIXXD2

DT Patent

LA English

IC ICM A61K007-48

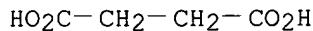
ICS A61K007-06

CC 62-1 (Essential Oils and **Cosmetics**)

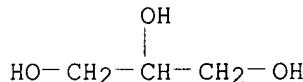
FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	WO 9410971	A1	19940526	WO 1993-EP3095	19931104 <--
	W: AT, AU, BB, BG, BR, BY, CA, CH, CZ, DE, DK, ES, FI, GB, HU, JP, KP, KR, KZ, LK, LU, LV, MG, MN, MW, NL, NO, NZ, PL, PT, RO, RU, SD, SE, SK, UA, UZ, VN				
	RW: AT, BE, CH, DE, DK, ES, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI, CM, GA, GN, ML, MR, NE, SN, TD, TG				
	AU 9454640	A1	19940608	AU 1994-54640	19931104 <--
PRAI	GB 1992-23578		19921111 <--		
	WO 1993-EP3095		19931104 <--		
AB	A compn. for topical application to skin, hair or nails comprises: (i) an effective amt. of a succinic acid ester having a lipid-like structure, (ii) a cosmetically acceptable vehicle. A skin lotion contained the succinic acid ester [C22H43OC(O)CH(CH:CHC14H29)CH2C(O)(OC2H4)4-5EOOH] 0.08, ETOH 10, perfume 0.5, and water to 100% wt./wt.				
ST	succinate ester cosmetic				
IT	Surfactants				
	Ceramides				
	Siloxanes and Silicones, biological studies				
	RL: BIOL (Biological study)				
	(cosmetic compns. contg. succinic acid esters and)				
IT	Nail (anatomical)				
	(cosmetics for, succinic acid esters for)				
IT	Cosmetics				
	Hair preparations				
	(succinic acid esters for)				
IT	Cosmetics				
	(creams, succinic acid esters for)				
IT	Cosmetics				

(emulsions, succinic acid esters for)
 IT Cosmetics
 (liposomes, succinic acid esters for)
 IT Cosmetics
 (lotions, succinic acid esters for)
 IT Sunburn and Suntan
 (suntanning agents, succinic acid esters for)
 IT 110-15-6D, Butanedioic acid, esters 153311-81-0 153311-82-1
 156944-61-5 156944-62-6 156944-63-7
 RL: BIOL (Biological study)
 (cosmetic compns. contg.)
 IT 56-81-5D, 1,2,3-Propanetriol, ethers 111-01-3, Squalane
 111-02-4, Squalene
 RL: BIOL (Biological study)
 (cosmetic compns. contg. succinic acid esters and)
 IT 110-15-6D, Butanedioic acid, esters
 RL: BIOL (Biological study)
 (cosmetic compns. contg.)
 RN 110-15-6 HCPLUS
 CN Butanedioic acid (9CI) (CA INDEX NAME)



IT 56-81-5D, 1,2,3-Propanetriol, ethers
 RL: BIOL (Biological study)
 (cosmetic compns. contg. succinic acid esters and)
 RN 56-81-5 HCPLUS
 CN 1,2,3-Propanetriol (9CI) (CA INDEX NAME)



L145 ANSWER 11 OF 11 HCPLUS COPYRIGHT 2002 ACS
 AN 1990:223161 HCPLUS
 DN 112:223161
 TI Aqueous gelation agents containing olefin-maleic anhydride copolymer and gelatins
 IN Sajima, Masaaki; Akimoto, Shinichi
 PA Nippon Oils and Fats Co., Ltd., Japan; Sairando Koryo Y. K.
 SO Jpn. Kokai Tokkyo Koho, 5 pp.
 CODEN: JKXXAF

DT Patent
 LA Japanese
 IC ICM C09K003-00
 ICS A61K007-00; A61K007-02; A61L009-01
 CC 62-5 (Essential Oils and Cosmetics)
 Section cross-reference(s): 5, 46

FAN.CNT 1

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
-----	-----	-----	-----	-----
PI JP 01297484	A2	19891130	JP 1988-126935	19880526 <--
AB	An aq. gelation agent consists of reaction products of olefin-maleic anhyd. copolymer with gelatins or collagens. The gel is uniform even in the presence of water-insol. compds. or strongly hydrophilic surfactants. The gel may be used in manufg. air fresheners, pet repellents, detergents, etc. Thus, 4.5 g gelatin (mol. wt. 55,000-100,000) and 0.5 g sugar were mixed with 75g H ₂ O at pH 7.0,			

dissolved at 60-70.degree., and cooled to 40.degree.. To this mixt. was added 20g aq. soln. consisting of a floral perfume 6.0, 4-nonylphenylpoly(oxyethylene) ether 4.0, **isobutylene-maleic** anhyd. copolymer 0.8, EtOH 2.0, propylene glycol 0.2, water 7.0 g to give an air freshener gel.

ST gel gelatin collagen polymer; air freshener gel polymer; agrochem gel polymer; detergent gel polymer

IT Detergents
Repellents
(manuf. of, gelation agents for)

IT Alkenes, polymers
RL: BIOL (Biological study)
(with **maleic** anhydride, reaction products of gelatins and, as gelation agents)

IT Deodorants
(air fresheners, manuf. of, gelation agents for)

IT Collagens, compounds
Gelatins, compounds
RL: PREP (Preparation)
(reaction products, with **maleic** anhydride-olefin copolymer, prepn. of, as gellation agents).

IT 108-31-6DP, 2,5-Furandione, polymers with olefins, reaction products with gelatins or collagens 26426-80-2DP, **Isobutylene-maleic** anhydride copolymer, reaction products with gelatins
RL: PREP (Preparation)
(prepn. of, as gelation agents)

IT 26426-80-2DP, **Isobutylene-maleic** anhydride copolymer, reaction products with gelatins
RL: PREP (Preparation)
(prepn. of, as gelation agents)

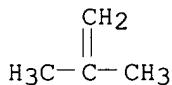
RN 26426-80-2 HCPLUS

CN 2,5-Furandione, polymer with 2-methyl-1-propene (9CI) (CA INDEX NAME)

CM 1

CRN 115-11-7

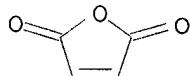
CMF C4 H8



CM 2

CRN 108-31-6

CMF C4 H2 O3



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FILE 'REGISTRY' ENTERED AT 11:11:38 ON 30 AUG 2002

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STRUCTURE FILE UPDATES: 28 AUG 2002 HIGHEST RN 445373-06-8
 DICTIONARY FILE UPDATES: 28 AUG 2002 HIGHEST RN 445373-06-8

TSCA INFORMATION NOW CURRENT THROUGH MAY 20, 2002

Jan Delaval
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 Biotechnology & Chemical Library
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 jan.delaval@uspto.gov

Please note that search-term pricing does apply when
 conducting SmartSELECT searches.

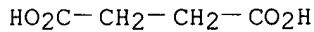
Crossover limits have been increased. See HELP CROSSOVER for details.

Calculated physical property data is now available. See HELP PROPERTIES
 for more information. See STNote 27, Searching Properties in the CAS
 Registry File, for complete details:

<http://www.cas.org/ONLINE/STN/STNOTES/stnotes27.pdf>

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L19 ANSWER 1 OF 2 REGISTRY COPYRIGHT 2002 ACS
 RN 110-15-6 REGISTRY
 CN Butanedioic acid (9CI) (CA INDEX NAME)
 OTHER CA INDEX NAMES:
 ✓ CN Succinic acid (8CI)
 OTHER NAMES:
 CN 1,2-Ethanedicarboxylic acid
 CN 1,4-Butanedioic acid
 CN A 12084
 CN Amber acid
 CN Asuccin
 CN Dihydrofumaric acid
 CN Katasuccin
 CN Wormwood acid
 FS 3D CONCORD
 MF C4 H6 O4
 CI COM
 LC STN Files: AGRICOLA, ANABSTR, AQUIRE, BEILSTEIN*, BIOBUSINESS, BIOSIS,
 BIOTECHNO, CA, CABA, CANCERLIT, CAOLD, CAPLUS, CASREACT, CBNB, CEN,
 CHEMCATS, CHEMINFORMRX, CHEMLIST, CIN, CSCHEM, DDFU, DETHERM*, DIOGENES,
 DIPPR*, DRUGU, EMBASE, ENCOMPLIT, ENCOMPLIT2, ENCOMPPAT, ENCOMPPAT2,
 GMELIN*, HODOC*, HSDB*, IFICDB, IFIPAT, IFIUDB, IPA, MEDLINE, MRCK*,
 MSDS-OHS, NAPRALERT, NIOSHTIC, PDLCOM*, PIRA, PROMT, RTECS*, SPECINFO,
 SYNTHLINE, TOXCENTER, TULSA, ULIDAT, USPAT2, USPATFULL, VETU, VTB
 (*File contains numerically searchable property data)
 Other Sources: DSL**, EINECS**, TSCA**
 (**Enter CHEMLIST File for up-to-date regulatory information)



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

17534 REFERENCES IN FILE CA (1967 TO DATE)
 1987 REFERENCES TO NON-SPECIFIC DERIVATIVES IN FILE CA
 17544 REFERENCES IN FILE CAPLUS (1967 TO DATE)
 9 REFERENCES IN FILE CAOLD (PRIOR TO 1967)

REFERENCE 1: 137:146186

REFERENCE 2: 137:145609

REFERENCE 3: 137:145608

REFERENCE 6: 137:140338

REFERENCE 7: 137:127371

REFERENCE 8: 137:127263

REFERENCE 9: 137:126814

REFERENCE 10: 137:126794

L18 ANSWER 3 OF 4 REGISTRY COPYRIGHT 2002 ACS

RN 115-07-1 REGISTRY

CN 1-Propene (9CI) (CA INDEX NAME)

OTHER CA INDEX NAMES:

CN Propene (8CI)

OTHER NAMES:

CN 1-Propylene

CN Methylethylene

CN Propylene

CN R 1270

FS 3D CONCORD

DR 676-63-1, 33004-01-2

MF C3 H6

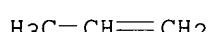
CI COM

LC STN Files: ADISNEWS, AGRICOLA, ANABSTR, BEILSTEIN*, BIOBUSINESS, BIOSIS, BIOTECHNO, CA, CABA, CANCERLIT, CAOLD, CAPLUS, CASREACT, CBNB, CEN, CHEMCATS, CHEMINFORMRX, CHEMLIST, CHEMSAFE, CIN, CSCHEM, CSNB, DETHERM*, DIPPR*, EMBASE, ENCOMPLIT, ENCOMPLIT2, ENCOMPPAT, ENCOMPPAT2, GMELIN*, HODOC*, HSDB*, IFICDB, IFIPAT, IFIUDB, MEDLINE, MRCK*, MSDS-OHS, NIOSHTIC, PDLCOM*, PIRA, PROMT, RTECS*, SPECINFO, SYNTHLINE, TOXCENTER, TULSA, ULIDAT, USPAT2, USPATFULL, VTB

(*File contains numerically searchable property data)

Other Sources: DSL**, EINECS**, TSCA**

(**Enter CHEMLIST File for up-to-date regulatory information)



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29717 REFERENCES IN FILE CA (1967 TO DATE)

2306 REFERENCES TO NON-SPECIFIC DERIVATIVES IN FILE CA

29749 REFERENCES IN FILE CAPLUS (1967 TO DATE)

28 REFERENCES IN FILE CAOLD (PRIOR TO 1967)

REFERENCE 1: 137:149446

REFERENCE 2: 137:148864

REFERENCE 3: 137:147680

REFERENCE 4: 137:147104

REFERENCE 5: 137:146124

REFERENCE 6: 137:145957

REFERENCE 7: 137:145706

REFERENCE 8: 137:144535

REFERENCE 9: 137:144363

REFERENCE 10: 137:144222

L18 ANSWER 4 OF 4 REGISTRY COPYRIGHT 2002 ACS

RN 74-85-1 REGISTRY

CN Ethene (9CI) (CA INDEX NAME)

OTHER CA INDEX NAMES:

CN Ethylene (8CI)

OTHER NAMES:

CN Acetene

CN Bicarburretted hydrogen

CN Elayl

CN Olefiant gas

FS 3D CONCORD

DR 87701-64-2, 87701-65-3, 33060-30-9

MF C2 H4

CI COM

LC STN Files: AGRICOLA, ANABSTR, AQUIRE, BEILSTEIN*, BIOBUSINESS, BIOSIS, BIOTECHNO, CA, CABA, CANCERLIT, CAOLD, CAPLUS, CASREACT, CBNB, CEN, CHEMCATS, CHEMINFORMRX, CHEMLIST, CHEMSAFE, CIN, CSCHEM, CSNB, DETHERM*, DIOGENES, DIPPR*, EMBASE, ENCOMPLIT, ENCOMPLIT2, ENCOMPPAT, ENCOMPPAT2, GMELIN*, HODOC*, HSDB*, IFICDB, IFIPAT, IFIUDB, IPA, MEDLINE, MRCK*, MSDS-OHS, NAPRALERT, NIOSHTIC, PDLCOM*, PIRA, PROMT, RTECS*, SPECINFO, TOXCENTER, TULSA, ULIDAT, USAN, USPAT2, USPATFULL, VTB

(*File contains numerically searchable property data)

Other Sources: DSL**, EINECS**, TSCA**

(**Enter CHEMLIST File for up-to-date regulatory information)



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

64732 REFERENCES IN FILE CA (1967 TO DATE)

10847 REFERENCES TO NON-SPECIFIC DERIVATIVES IN FILE CA

64793 REFERENCES IN FILE CAPLUS (1967 TO DATE)

22 REFERENCES IN FILE CAOLD (PRIOR TO 1967)

REFERENCE 1: 137:148864

REFERENCE 2: 137:147737

REFERENCE 3: 137:147705

REFERENCE 4: 137:147680

REFERENCE 5: 137:147331

REFERENCE 6: 137:146032

REFERENCE 7: 137:145963

REFERENCE 8: 137:145893

REFERENCE 9: 137:145847

REFERENCE 10: 137:145706

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L24 ANSWER 1 OF 8 REGISTRY COPYRIGHT 2002 ACS
 RN 6915-18-0 REGISTRY
 CN 2-Butenedioic acid (9CI) (CA INDEX NAME)
 OTHER CA INDEX NAMES:
 CN Butenedioic acid (8CI)
 OTHER NAMES:
 CN 1,2-Ethenedicarboxylic acid
 CN 1,2-Ethylenedicarboxylic acid
 FS 3D CONCORD
 MF C4 H4 O4
 CI COM
 LC STN Files: ANABSTR, BEILSTEIN*, BIOSIS, CA, CAPLUS, CASREACT,
 CHEMINFORMRX, CIN, DETHERM*, GMELIN*, IFICDB, IFIUDB, PROMT, TOXCENTER,
 USPATFULL
 (*File contains numerically searchable property data)



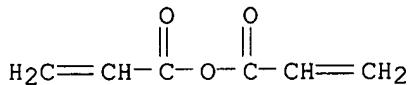
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 28 REFERENCES TO NON-SPECIFIC DERIVATIVES IN FILE CA
 110 REFERENCES IN FILE CAPLUS (1967 TO DATE)

REFERENCE 1: 137:128796
 REFERENCE 2: 136:344841
 REFERENCE 3: 136:316756
 REFERENCE 4: 136:286525
 REFERENCE 5: 136:153739
 REFERENCE 6: 135:312681
 REFERENCE 7: 135:89841
 REFERENCE 8: 135:61378
 REFERENCE 9: 134:344960
 REFERENCE 10: 134:27004

L24 ANSWER 2 OF 8 REGISTRY COPYRIGHT 2002 ACS
 RN 2051-76-5 REGISTRY
 CN 2-Propenoic acid, anhydride (9CI) (CA INDEX NAME)
 OTHER CA INDEX NAMES:
 CN Acrylic anhydride (6CI, 7CI, 8CI)
 OTHER NAMES:
 CN Acrylic acid anhydride
 FS 3D CONCORD
 MF C6 H6 O3
 CI COM
 LC STN Files: BEILSTEIN*, BIOSIS, CA, CAOLD, CAPLUS, CASREACT, CHEMCATS,
 CHEMINFORMRX, CHEMLIST, CIN, CSCHEM, IFICDB, IFIPAT, IFIUDB, MSDS-OHS,
 PDLCOM*, PIRA, PROMT, TOXCENTER, USPATFULL, VTB
 (*File contains numerically searchable property data)
 Other Sources: EINECS**

(**Enter CHEMLIST File for up-to-date regulatory information)



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

175 REFERENCES IN FILE CA (1967 TO DATE)
 24 REFERENCES TO NON-SPECIFIC DERIVATIVES IN FILE CA
 175 REFERENCES IN FILE CAPLUS (1967 TO DATE)
 25 REFERENCES IN FILE CAOLD (PRIOR TO 1967)

REFERENCE 1: 137:35400

REFERENCE 2: 137:33092

REFERENCE 3: 136:102188

REFERENCE 4: 136:86136

REFERENCE 5: 135:137827

REFERENCE 6: 135:137826

REFERENCE 7: 135:34315

REFERENCE 8: 134:331675

REFERENCE 9: 134:331674

REFERENCE 10: 134:310748

L24 ANSWER 3 OF 8 REGISTRY COPYRIGHT 2002 ACS

RN 760-93-0 REGISTRY

CN 2-Propenoic acid, 2-methyl-, anhydride (9CI) (CA INDEX NAME)

OTHER CA INDEX NAMES:

CN Methacrylic anhydride (6CI, 8CI)

OTHER NAMES:

CN Methacrylic acid anhydride

CN Methacryloyl anhydride

FS 3D CONCORD

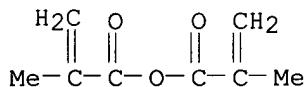
MF C8 H10 O3

CI COM

LC STN Files: BEILSTEIN*, BIOBUSINESS, BIOSIS, CA, CAOLD, CAPLUS, CASREACT, CHEMCATS, CHEMINFORMRX, CHEMLIST, CSCHEM, HODOC*, HSDB*, IFICDB, IFIPAT, IFIUDB, MSDS-OHS, PIRA, RTECS*, SPECINFO, TOXCENTER, USPAT2, USPATFULL
 (*File contains numerically searchable property data)

Other Sources: EINECS**, NDSL**, TSCA**

(**Enter CHEMLIST File for up-to-date regulatory information)



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

433 REFERENCES IN FILE CA (1967 TO DATE)
 67 REFERENCES TO NON-SPECIFIC DERIVATIVES IN FILE CA
 436 REFERENCES IN FILE CAPLUS (1967 TO DATE)
 25 REFERENCES IN FILE CAOLD (PRIOR TO 1967)

REFERENCE 1: 137:140871
 REFERENCE 2: 137:94169
 REFERENCE 3: 137:79391
 REFERENCE 4: 137:58577
 REFERENCE 5: 137:54621
 REFERENCE 6: 137:48172
 REFERENCE 7: 137:39324
 REFERENCE 8: 137:34038
 REFERENCE 9: 137:33593
 REFERENCE 10: 137:33092

L24 ANSWER 4 OF 8 REGISTRY COPYRIGHT 2002 ACS
 RN 110-17-8 REGISTRY
 CN 2-Butenedioic acid (2E)- (9CI) (CA INDEX NAME)
 OTHER CA INDEX NAMES:
 CN 2-Butenedioic acid (E)-
 CN Fumaric acid (8CI)
 OTHER NAMES:
 CN (E)-2-Butenedioic acid
 CN 2-(E)-Butenedioic acid
 CN 2-Butenedioic acid, (E)-
 CN Allomaleic acid
 CN Boletic acid
 CN FC 33
 CN Lichenic acid
 CN trans-1,2-Ethylenedicarboxylic acid
 CN trans-2-Butenedioic acid
 CN trans-Butenedioic acid
 FS STEREOSEARCH
 MF C4 H4 O4
 CI COM
 LC STN Files: ADISNEWS, AGRICOLA, ANABSTR, AQUIRE, BEILSTEIN*, BIOBUSINESS,
 BIOSIS, BIOTECHNO, CA, CABA, CANCERLIT, CAOLD, CAPLUS, CASREACT, CBNB,
 CEN, CHEMCATS, CHEMINFORMRX, CHEMLIST, CIN, CSCHEM, CSNB, DDFU,
 DETHERM*, DIPPR*, DRUGU, EMBASE, ENCOMPLIT, ENCOMPLIT2, ENCOMPPAT,
 ENCOMPPAT2, GMELIN*, HODOC*, HSDB*, IFICDB, IFIPAT, IFIUDB, IPA,
 MEDLINE, MRCK*, MSDS-OHS, NAPRALERT, NIOSHTIC, PDLCOM*, PIRA, PROMT,
 RTECS*, SPECINFO, TOXCENTER, TULSA, USAN, USPAT2, USPATFULL, VETU, VTB
 (*File contains numerically searchable property data)
 Other Sources: DSL**, EINECS**, TSCA**
 (**Enter CHEMLIST File for up-to-date regulatory information)

Double bond geometry as shown.



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

8232 REFERENCES IN FILE CA (1967 TO DATE)
1324 REFERENCES TO NON-SPECIFIC DERIVATIVES IN FILE CA
8237 REFERENCES IN FILE CAPLUS (1967 TO DATE)
2 REFERENCES IN FILE CAOLD (PRIOR TO 1967)

REFERENCE 1: 137:148701

REFERENCE 2: 137:145649

REFERENCE 3: 137:145609

REFERENCE 4: 137:145608

REFERENCE 5: 137:145594

REFERENCE 6: 137:145226

REFERENCE 7: 137:145190

REFERENCE 8: 137:145140

REFERENCE 9: 137:145134

REFERENCE 10: 137:140668

L24 ANSWER 5 OF 8 REGISTRY COPYRIGHT 2002 ACS

RN 110-16-7 REGISTRY

CN 2-Butenedioic acid (2Z)- (9CI) (CA INDEX NAME)

OTHER CA INDEX NAMES:

CN 2-Butenedioic acid (Z)-

CN Maleic acid (8CI)

OTHER NAMES:

CN 2-Butenedioic acid, (Z)-

CN cis-1,2-Ethylenedicarboxylic acid

CN cis-2-Butenedioic acid

CN cis-Butenedioic acid

CN Maleinic acid

CN Malezid CM

CN Scotchbond Multipurpose Etchant

CN Toxilic acid

FS STEREOSEARCH

MF C4 H4 O4

CI COM

LC STN Files: AGRICOLA, ANABSTR, AQUIRE, BEILSTEIN*, BIOBUSINESS, BIOSIS, BIOTECHNO, CA, CABA, CANCERLIT, CAOLD, CAPLUS, CASREACT, CBNB, CEN, CHEMCATS, CHEMINFORMRX, CHEMLIST, CIN, CSCHEM, CSNB, DDFU, DETHERM*, DIPPR*, DRUGU, EMBASE, ENCOMPLIT, ENCOMPLIT2, ENCOMPPAT, ENCOMPPAT2, GMELIN*, HODOC*, HSDB*, IFICDB, IFIPAT, IFIUDB, IPA, MEDLINE, MRCK*, MSDS-OHS, NAPRALERT, NIOSHTIC, PDLCOM*, PIRA, PROMT, RTECS*, SPECINFO, TOXCENTER, TULSA, USPAT2, USPATFULL

(*File contains numerically searchable property data)

Other Sources: DSL**, EINECS**, TSCA**

(**Enter CHEMLIST File for up-to-date regulatory information)

Double bond geometry as shown.



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

25041 REFERENCES IN FILE CA (1967 TO DATE)
 11643 REFERENCES TO NON-SPECIFIC DERIVATIVES IN FILE CA
 25056 REFERENCES IN FILE CAPLUS (1967 TO DATE)
 13 REFERENCES IN FILE CAOLD (PRIOR TO 1967)

REFERENCE 1: 137:145661

REFERENCE 2: 137:142222

REFERENCE 3: 137:142196

REFERENCE 4: 137:142062

REFERENCE 5: 137:141927

REFERENCE 6: 137:141718

REFERENCE 7: 137:141712

REFERENCE 8: 137:141649

REFERENCE 9: 137:141584

REFERENCE 10: 137:141572

L24 ANSWER 7 OF 8 REGISTRY COPYRIGHT 2002 ACS

RN 79-41-4 REGISTRY

CN 2-Propenoic acid, 2-methyl- (9CI) (CA INDEX NAME)

OTHER CA INDEX NAMES:

CN Methacrylic acid (8CI)

OTHER NAMES:

CN .alpha.-Methacrylic acid

CN .alpha.-Methylacrylic acid

CN 2-Methyl-2-propenoic acid

CN 2-Methylacrylic acid

CN GE 110

CN Loctite 3298

CN Methylacrylic acid

FS 3D CONCORD

MF C4 H6 O2

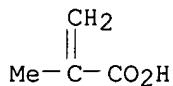
CI COM

LC STN Files: ADISNEWS, AGRICOLA, ANABSTR, AQUIRE, BEILSTEIN*, BIOBUSINESS, BIOSIS, BIOTECHNO, CA, CANCERLIT, CAOLD, CAPLUS, CASREACT, CBNB, CEN, CHEMCATS, CHEMINFORMRX, CHEMLIST, CHEMSAFE, CIN, CSCHEM, CSNB, DDFU, DETHERM*, DIPPR*, DRUGU, EMBASE, ENCOMPLIT, ENCOMPLIT2, ENCOMPPAT, ENCOMPPAT2, GMELIN*, HODOC*, HSDB*, IFICDB, IFIPAT, IFIUDB, IPA, MEDLINE, MRCK*, MSDS-OHS, NAPRALERT, NIOSHTIC, PDLCOM*, PIRA, PROMT, RTECS*, SPECINFO, SYNTHLINE, TOXCENTER, TULSA, ULIDAT, USPAT2, USPATFULL, VTB

(*File contains numerically searchable property data)

Other Sources: DSL**, EINECS**, TSCA**

(**Enter CHEMLIST File for up-to-date regulatory information)



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

14684 REFERENCES IN FILE CA (1967 TO DATE)
 8241 REFERENCES TO NON-SPECIFIC DERIVATIVES IN FILE CA
 14701 REFERENCES IN FILE CAPLUS (1967 TO DATE)
 11 REFERENCES IN FILE CAOLD (PRIOR TO 1967)

REFERENCE 1: 137:148869

REFERENCE 2: 137:147435

REFERENCE 3: 137:146124

REFERENCE 4: 137:145628

REFERENCE 5: 137:145573

REFERENCE 6: 137:145197

REFERENCE 7: 137:145182

REFERENCE 8: 137:141937

REFERENCE 9: 137:141546

REFERENCE 10: 137:141446

L24 ANSWER 8 OF 8 REGISTRY COPYRIGHT 2002 ACS

RN 79-10-7 REGISTRY

CN 2-Propenoic acid (9CI) (CA INDEX NAME)

OTHER CA INDEX NAMES:

CN Acrylic acid (6CI, 7CI, 8CI)

OTHER NAMES:

CN Acroleic acid

CN Ethylenecarboxylic acid

CN Propenoic acid

CN Vinylformic acid

FS 3D CONCORD

DR 55927-87-2

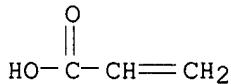
MF C3 H4 O2

CI COM

LC STN Files: AGRICOLA, ANABSTR, AQUIRE, BEILSTEIN*, BIOBUSINESS, BIOSIS, BIOTECHNO, CA, CABA, CANCERLIT, CAOLD, CAPLUS, CASREACT, CBNB, CEN, CHEMCATS, CHEMINFORMRX, CHEMLIST, CIN, CSCHEM, CSNB, DDFU, DETHERM*, DIOGENES, DIPPR*, DRUGU, EMBASE, ENCOMPLIT, ENCOMPLIT2, ENCOMPPAT, ENCOMPPAT2, GMELIN*, HODOC*, HSDB*, IFICDB, IFIPAT, IFIUDB, IPA, MEDLINE, MRCK*, MSDS-OHS, NIOSHTIC, PDLCOM*, PIRA, PROMT, RTECS*, SPECINFO, SYNTHLINE, TOXCENTER, TULSA, ULIDAT, USPAT2, USPATFULL, VTB
 (*File contains numerically searchable property data)

Other Sources: DSL**, EINECS**, TSCA**

(**Enter CHEMLIST File for up-to-date regulatory information)



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

25196 REFERENCES IN FILE CA (1967 TO DATE)
 15696 REFERENCES TO NON-SPECIFIC DERIVATIVES IN FILE CA
 25228 REFERENCES IN FILE CAPLUS (1967 TO DATE)
 3 REFERENCES IN FILE CAOLD (PRIOR TO 1967)

REFERENCE 1: 137:147759
 REFERENCE 2: 137:147757
 REFERENCE 3: 137:147435
 REFERENCE 4: 137:146124
 REFERENCE 5: 137:145647
 REFERENCE 6: 137:145573
 REFERENCE 7: 137:145212
 REFERENCE 8: 137:145210
 REFERENCE 9: 137:145202
 REFERENCE 10: 137:145197

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L30 ANSWER 1 OF 6 REGISTRY COPYRIGHT 2002 ACS
 RN 25322-68-3 REGISTRY
 CN Poly(oxy-1,2-ethanediyl), .alpha.-hydro-.omega.-hydroxy- (9CI) (CA INDEX
 NAME)

OTHER NAMES:

CN .alpha...omega.-Hydroxypoly(ethylene oxide)
 CN .alpha.-Hydro-.omega.-hydroxypoly(oxy-1,2-ethanediyl)
 CN .alpha.-Hydro-.omega.-hydroxypoly(oxyethylene)
 CN 1,2-Ethanediol, homopolymer
 CN 16600
 CN 1660S
 CN Alkox
 CN Alkox E 100
 CN Alkox E 130
 CN Alkox E 160
 CN Alkox E 240
 CN Alkox E 30
 CN Alkox E 45
 CN Alkox E 60
 CN Alkox E 75
 CN Alkox R 1000
 CN Alkox R 15
 CN Alkox R 150
 CN Alkox R 400
 CN Alkox SR
 CN Antarox E 4000
 CN Aquacide III

CN Aquaffin
 CN Badimol
 CN BDH 301
 CN Bradsyn PEG
 CN Breox 2000
 CN Breox 20M
 CN Breox 4000
 CN Breox 550
 CN Breox PEG 300
 CN CAFO 154
 CN Carbowax
 CN Carbowax 100
 CN Carbowax 1000
 CN Carbowax 1350
 CN Carbowax 14000
 CN Carbowax 1500
 CN Carbowax 1540
 CN Carbowax 20
 CN Carbowax 200
 CN Carbowax 20000
 CN Carbowax 25000
 CN Carbowax 300
 CN Carbowax 3350
 CN Carbowax 400
 CN Carbowax 4000
 CN Carbowax 4500
 CN Carbowax 4600
 CN Carbowax 600

ADDITIONAL NAMES NOT AVAILABLE IN THIS FORMAT - Use FCN, FIDE, or ALL for
DISPLAY

AR 9002-90-8
 DR 12676-74-3, 12770-93-3, 9081-95-2, 9085-02-3, 9085-03-4, 54510-95-1,
 125223-68-9, 54847-64-2, 59763-40-5, 64441-68-5, 64640-28-4, 133573-31-6,
 25104-58-9, 25609-81-8, 134919-43-0, 101677-86-5, 99264-61-6, 106186-24-7,
 112895-21-3, 114323-93-2, 50809-04-6, 50809-59-1, 119219-06-6, 60894-12-4,
 61840-14-0, 37361-15-2, 112384-37-9, 70926-57-7, 75285-02-8, 75285-03-9,
 77986-38-0, 150872-82-5, 154394-38-4, 79964-26-4, 80341-53-3, 85399-22-0,
 85945-29-5, 88747-22-2, 34802-42-1, 107502-63-6, 107529-96-4, 116549-90-7,
 156948-19-5, 169046-53-1, 188364-77-4, 188924-03-0, 189154-62-9,
 191743-71-2, 201163-43-1, 206357-86-0, 221638-71-7, 225502-44-3,
 270910-26-4, 307928-07-0, 356055-70-4, 391229-98-4

MF (C₂ H₄ O)_n H₂ O

CI PMS, COM

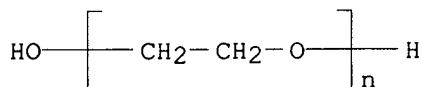
PCT Polyether

LC STN Files: ADISNEWS, AGRICOLA, ANABSTR, AQUIRE, BIOBUSINESS, BIOSIS,
 BIOTECHNO, CA, CABA, CANCERLIT, CAPLUS, CASREACT, CBNB, CEN, CHEMCATS,
 CHEMINFORMRX, CHEMLIST, CHEMSAFE, CIN, CSCHEM, CSNB, DDFU, DETHERM*,
 DIOGENES, DRUGU, EMBASE, ENCOMPLIT, ENCOMPLIT2, ENCOMPPAT, ENCOMPPAT2,
 HSDB*, IFICDB, IFIPAT, IFIUDB, IPA, MEDLINE, MRCK*, MSDS-OHS, NIOSHTIC,
 PDLCOM*, PIRA, PROMT, RTECS*, SPECINFO, TOXCENTER, TULSA, ULIDAT, USAN,
 USPAT2, USPATFULL, VETU, VTB

(*File contains numerically searchable property data)

Other Sources: DSL**, TSCA**, WHO

(**Enter CHEMLIST File for up-to-date regulatory information)

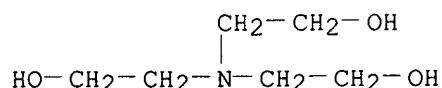


62515 REFERENCES IN FILE CA (1967 TO DATE)

16773 REFERENCES TO NON-SPECIFIC DERIVATIVES IN FILE CA

REFERENCE 4: 137:109056
 REFERENCE 5: 137:95349
 REFERENCE 6: 137:68054
 REFERENCE 7: 137:65540
 REFERENCE 8: 137:65393
 REFERENCE 9: 137:63573
 REFERENCE 10: 137:63248

L30 ANSWER 3 OF 6 REGISTRY COPYRIGHT 2002 ACS
 RN 102-71-6 REGISTRY
 CN Ethanol, 2,2',2'''-nitrilotris- (9CI) (CA INDEX NAME)
 OTHER CA INDEX NAMES:
 CN Ethanol, 2,2',2'''-nitrilotri- (8CI)
 OTHER NAMES:
 CN 2,2',2'''-Nitrilotriethanol
 CN 2,2',2'''-Nitrilotris[ethanol]
 CN Alkanolamine 244
 CN Biafine
 CN Daltogen
 CN Nitrilotriethanol
 CN Sterolamide
 CN Sting-Kill
 CN TEA
 CN TEA (amino alcohol)
 CN TEOA
 CN Triethanolamin
 CN Triethanolamine
 CN Tris(.beta.-hydroxyethyl)amine
 CN Tris(2-hydroxyethyl)amine
 CN tris-(2-Hydroxyethyl)amine
 CN Trolamine
 FS 3D CONCORD
 DR 126068-67-5, 105655-27-4, 36549-53-8, 36549-54-9, 36549-55-0, 36659-79-7
 MF C6 H15 N O3
 CI COM
 LC STN Files: ADISNEWS, AGRICOLA, ANABSTR, AQUIRE, BEILSTEIN*, BIOBUSINESS,
 BIOSIS, BIOTECHNO, CA, CANCERLIT, CAOLD, CAPLUS, CASREACT, CBNB, CEN,
 CHEMCATS, CHEMINFORMRX, CHEMLIST, CHEMSAFE, CIN, CSCHEM, CSNB, DDFU,
 DETHERM*, DIOGENES, DIPPR*, DRUGU, EMBASE, ENCOMPLIT, ENCOMPLIT2,
 ENCOMPPAT, ENCOMPPAT2, GMELIN*, HODOC*, HSDB*, IFICDB, IFIPAT, IFIUDB,
 IPA, MEDLINE, MRCK*, MSDS-OHS, NIOSHTIC, PDLCOM*, PIRA, PROMT, RTECS*,
 SPECINFO, SYNTHLINE, TOXCENTER, TULSA, ULIDAT, USAN, USPAT2, USPATFULL,
 VTB
 (*File contains numerically searchable property data)
 Other Sources: DSL**, EINECS**, TSCA**
 (**Enter CHEMLIST File for up-to-date regulatory information)



13714 REFERENCES IN FILE CA (1967 TO DATE)
1732 REFERENCES TO NON-SPECIFIC DERIVATIVES IN FILE CA
13721 REFERENCES IN FILE CAPLUS (1967 TO DATE)
39 REFERENCES IN FILE CAOLD (PRIOR TO 1967)

REFERENCE 1: 137:147756

REFERENCE 2: 137:147754

REFERENCE 3: 137:147674

REFERENCE 4: 137:145632

REFERENCE 5: 137:145364

REFERENCE 6: 137:145232

REFERENCE 7: 137:145185

REFERENCE 8: 137:144332

REFERENCE 9: 137:143928

REFERENCE 10: 137:143397

L30 ANSWER 4 OF 6 REGISTRY COPYRIGHT 2002 ACS

RN 100-37-8 REGISTRY

CN Ethanol, 2-(diethylamino)- (8CI, 9CI) (CA INDEX NAME)

OTHER NAMES:

CN (2-Hydroxyethyl)diethylamine

CN (Diethylamino)ethanol

CN .beta.- (Diethylamino)ethanol

CN 2-(Diethylamino)ethanol

CN 2-(Diethylamino)ethyl alcohol

CN 2-(N,N-Diethylamino)ethanol

CN 2-Hydroxytriethylamine

CN DEAE

CN DEEA

CN Diethyl(.beta.-hydroxyethyl)amine

CN Diethylethanolamine

CN Diethylmonoethanolamine

CN MKS

CN N,N-Diethyl(2-hydroxyethyl)amine

CN N,N-Diethyl-2-aminoethanol

CN N,N-Diethylethanolamine

CN N,N-Diethylmonoethanolamine

CN N-(2-Hydroxyethyl)diethylamine

CN Pennad 150

FS 3D CONCORD

DR 102802-00-6

MF C6 H15 N O

CI COM

LC STN Files: ANABSTR, AQUIRE, BEILSTEIN*, BIOBUSINESS, BIOSIS, BIOTECHNO, CA, CANCERLIT, CAOLD, CAPLUS, CASREACT, CBNB, CHEMCATS, CHEMINFORMRX, CHEMLIST, CHEMSAFE, CIN, CSCHEM, CSNB, DDFU, DETHERM*, DIPPR*, DRUGU, EMBASE, GMELIN*, HODOC*, HSDB*, IFICDB, IFIPAT, IFIUDB, IPA, MEDLINE, MRCK*, MSDS-OHS, NIOSHTIC, PIRA, PROMT, RTECS*, SPECINFO, SYNTHLINE, TOXCENTER, ULIDAT, USPAT2, USPATFULL

(*File contains numerically searchable property data)

Other Sources: DSL**, EINECS**, TSCA**

(**Enter CHEMLIST File for up-to-date regulatory information)

Et₂N-CH₂-CH₂-OH

PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

1862 REFERENCES IN FILE CA (1967 TO DATE)
211 REFERENCES TO NON-SPECIFIC DERIVATIVES IN FILE CA
1865 REFERENCES IN FILE CAPLUS (1967 TO DATE)
30 REFERENCES IN FILE CAOLD (PRIOR TO 1967)

REFERENCE 1: 137:142002

REFERENCE 2: 137:140822

REFERENCE 3: 137:140276

REFERENCE 4: 137:137069

REFERENCE 5: 137:119680

REFERENCE 6: 137:108980

REFERENCE 7: 137:102407

REFERENCE 8: 137:59913

REFERENCE 9: 137:50198

REFERENCE 10: 137:27052

L30 ANSWER 5 OF 6 REGISTRY COPYRIGHT 2002 ACS

RN 75-21-8 REGISTRY

CN Oxirane (9CI) (CA INDEX NAME)

OTHER CA INDEX NAMES:

CN Ethylene oxide (8CI)

CN Ethyleneoxy (6CI)

OTHER NAMES:

CN 1,2-Epoxyethane

CN 12/88

CN Ciba-Geigy 9138

CN Dihydrooxirene

CN Dimethylene oxide

CN Epoxyethane

CN Ethene oxide

CN ETO

CN Mirror Ox

CN Oxacyclopropane

CN Oxane

CN Oxidoethane

CN Oxirene, dihydro-

CN Oxyfume

CN Oxyfume 12

CN T-Gas

FS 3D CONCORD

DR 19034-08-3, 37341-05-2, 99932-75-9, 184288-32-2

MF C2 H4 O

CI COM, RPS

LC STN Files: ADISNEWS, AGRICOLA, ANABSTR, AQUIRE, BEILSTEIN*, BIOBUSINESS,
BIOSIS, BIOTECHNO, CA, CABA, CANCERLIT, CAOLD, CAPLUS, CASREACT, CBNB,
CEN, CHEMCATS, CHEMINFORMRX, CHEMLIST, CHEMSAFE, CIN, CSCHEM, CSNB,
DDFU, DETHERM*, DIPPR*, DRUGU, EMBASE, ENCOMPLIT, ENCOMPLIT2, ENCOMPPAT,
ENCOMPPAT2, GMELIN*, HODOC*, HSDB*, IFICDB, IFIPAT, IFIUDB, IPA,

MEDLINE, MRCK*, MSDS-OHS, NAPRALERT, NIOSHTIC, PDLCOM*, PIRA, PROMT, RTECS*, SPECINFO, SYNTHLINE, TOXCENTER, TULSA, ULIDAT, USPAT2, USPATFULL, VETU, VTB

(*File contains numerically searchable property data)

Other Sources: DSL**, EINECS**, TSCA**

(**Enter CHEMLIST File for up-to-date regulatory information)

○

PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

12882 REFERENCES IN FILE CA (1967 TO DATE)
2856 REFERENCES TO NON-SPECIFIC DERIVATIVES IN FILE CA
12890 REFERENCES IN FILE CAPLUS (1967 TO DATE)
12 REFERENCES IN FILE CAOLD (PRIOR TO 1967)

REFERENCE 1: 137:147714

REFERENCE 2: 137:145670

REFERENCE 3: 137:145199

REFERENCE 4: 137:142197

REFERENCE 5: 137:140827

REFERENCE 6: 137:140778

REFERENCE 7: 137:137393

REFERENCE 8: 137:129062

REFERENCE 9: 137:126836

REFERENCE 10: 137:126833

L30 ANSWER 6 OF 6 REGISTRY COPYRIGHT 2002 ACS

RN 56-81-5 REGISTRY

CN 1,2,3-Propanetriol (9CI) (CA INDEX NAME)

OTHER CA INDEX NAMES:

CN Glycerol (8CI)

CN Propanetriol (7CI)

OTHER NAMES:

CN 1,2,3-Trihydroxypropane

CN Glycerin

CN Glycerine

CN Glyceritol

CN Glycyl alcohol

CN Glyrol

CN Glysatin

CN Osmoglyn

CN Pricerine 9091

CN Trihydroxypropane

AR 30918-77-5

FS 3D CONCORD

DR 8013-25-0, 37228-54-9, 75398-78-6, 78630-16-7, 29796-42-7, 30049-52-6

MF C3 H8 O3

CI COM

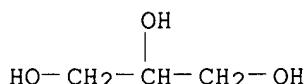
LC STN Files: ADISNEWS, AGRICOLA, ANABSTR, AQUIRE, BEILSTEIN*, BIOBUSINESS,

BIOSIS, BIOTECHNO, CA, CABA, CANCERLIT, CAOLD, CAPLUS, CASREACT, CBNB, CEN, CHEMCATS, CHEMINFORMRX, CHEMLIST, CHEMSAFE, CIN, CSCHEM, CSNB, DDFU, DETHERM*, DIOGENES, DIPPR*, DRUGU, EMBASE, ENCOMPLIT, ENCOMPLIT2, ENCOMPPAT, ENCOMPPAT2, GMELIN*, HODOC*, HSDB*, IFICDB, IFIPAT, IFIUDB, IPA, MEDLINE, MRCK*, MSDS-OHS, NAPRALERT, NIOSHTIC, PDLCOM*, PHARMASEARCH, PIRA, PROMT, RTECS*, SPECINFO, SYNTHLINE, TOXCENTER, TULSA, ULIDAT, USAN, USPAT2, USPATFULL, VETU, VTB

(*File contains numerically searchable property data)

Other Sources: DSL**, EINECS**, TSCA**, WHO

(**Enter CHEMLIST File for up-to-date regulatory information)



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

44111 REFERENCES IN FILE CA (1967 TO DATE)
 4612 REFERENCES TO NON-SPECIFIC DERIVATIVES IN FILE CA
 44166 REFERENCES IN FILE CAPLUS (1967 TO DATE)
 1 REFERENCES IN FILE CAOLD (PRIOR TO 1967)

REFERENCE 1: 137:148859

REFERENCE 2: 137:147616

REFERENCE 3: 137:146919

REFERENCE 4: 137:145993

REFERENCE 5: 137:145667

REFERENCE 6: 137:145650

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REFERENCE 8: 137:145618

REFERENCE 9: 137:145612

REFERENCE 10: 137:145609

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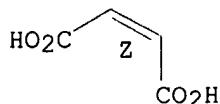
L89 ANSWER 1 OF 155 REGISTRY COPYRIGHT 2002 ACS
 RN 436810-37-6 REGISTRY
 CN 2-Butenedioic acid (2Z)-, potassium salt, polymer with 2-methyl-1-propene
 (9CI) (CA INDEX NAME)
 FS STEREOSEARCH
 MF (C4 H8 . C4 H4 O4 . x K)x
 CI PMS
 PCT Polyolefin, Polyvinyl
 SR CA
 LC STN Files: CA, CAPLUS

CM 1

CRN 10237-70-4 (110-16-7)
 CMF C4 H4 O4 . x K

Double bond geometry as shown.

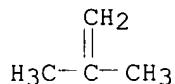
Jan Delaval
Reference Librarian
Biotechnology & Chemical Library
CM1 1E07 - 703-308-4498
jan.delaval@uspto.gov



● x K

CM 2

CRN 115-11-7
CMF C4 H8



1 REFERENCES IN FILE CA (1967 TO DATE)
1 REFERENCES IN FILE CAPLUS (1967 TO DATE)

REFERENCE 1: 137:33983

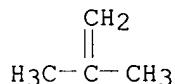
L89 ANSWER 2 OF 155 REGISTRY COPYRIGHT 2002 ACS
RN 431946-68-8 REGISTRY
CN 2-Propenoic acid, polymer with 2-methyl-1-propene, alternating, block
(9CI) (CA INDEX NAME)

OTHER NAMES:

CN Acrylic acid-isobutylene alternating block copolymer
MF (C4 H8 . C3 H4 O2)x
CI PMS
PCT Polyacrylic, Polyolefin
SR CA
LC STN Files: CA, CAPLUS

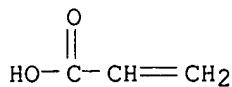
CM 1

CRN 115-11-7
CMF C4 H8



CM 2

CRN 79-10-7
CMF C3 H4 O2



1 REFERENCES IN FILE CA (1967 TO DATE)
 1 REFERENCES IN FILE CAPLUS (1967 TO DATE)

REFERENCE 1: 136:403175

L89 ANSWER 3 OF 155 REGISTRY COPYRIGHT 2002 ACS

RN 355117-35-0 REGISTRY

CN 2,5-Furandione, polymer with .alpha.-hydro-.omega.-hydroxypoly(oxy-1,2-ethanediyl) and 1-propene, graft (9CI) (CA INDEX NAME)

OTHER CA INDEX NAMES:

CN 1-Propene, polymer with 2,5-furandione and .alpha.-hydro-.omega.-hydroxypoly(oxy-1,2-ethanediyl), graft (9CI)

CN Poly(oxy-1,2-ethanediyl), .alpha.-hydro-.omega.-hydroxy-, polymer with 2,5-furandione and 1-propene, graft (9CI)

OTHER NAMES:

CN Maleic anhydride-polyethylene glycol-propylene graft copolymer

MF (C₄ H₂ O₃ . C₃ H₆ . (C₂ H₄ O)_n H₂ O)_x

CI PMS

PCT Polyester, Polyester formed, Polyether, Polyolefin, Polyvinyl

SR CA

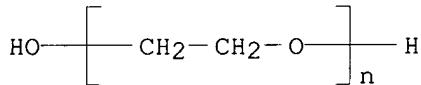
LC STN Files: CA, CAPLUS

CM 1

CRN 25322-68-3

CMF (C₂ H₄ O)_n H₂ O

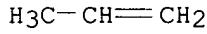
CCI PMS



CM 2

CRN 115-07-1

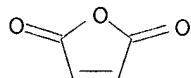
CMF C₃ H₆



CM 3

CRN 108-31-6

CMF C₄ H₂ O₃



1 REFERENCES IN FILE CA (1967 TO DATE)

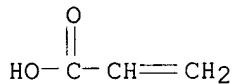
1 REFERENCES IN FILE CAPLUS (1967 TO DATE)

REFERENCE 1: 135:181199

L89 ANSWER 4 OF 155 REGISTRY COPYRIGHT 2002 ACS
 RN 345296-06-2 REGISTRY
 CN Oxirane, polymer with ethene, 2-propenoate, block (9CI) (CA INDEX NAME)
 OTHER CA INDEX NAMES:
 CN Ethene, polymer with oxirane, 2-propenoate, block (9CI)
 MF C3 H4 O2 . x (C2 H4 O . C2 H4)x
 PCT Polyether, Polyether formed, Polyolefin
 SR CA
 LC STN Files: CA, CAPLUS

CM 1

CRN 79-10-7
 CMF C3 H4 O2



CM 2

CRN 126140-91-8
 CMF (C2 H4 O . C2 H4)x
 CCI PMS

CM 3

CRN 75-21-8
 CMF C2 H4 O



CM 4

CRN 74-85-1
 CMF C2 H4



1 REFERENCES IN FILE CA (1967 TO DATE)
 1 REFERENCES TO NON-SPECIFIC DERIVATIVES IN FILE CA
 1 REFERENCES IN FILE CAPLUS (1967 TO DATE)

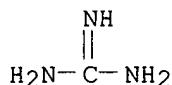
REFERENCE 1: 135:61608

L89 ANSWER 5 OF 155 REGISTRY COPYRIGHT 2002 ACS
 RN 339990-00-0 REGISTRY
 CN 2,5-Furandione, polymer with 2-methyl-1-propene, compd. with guanidine, ammonium salt (9CI) (CA INDEX NAME)
 OTHER CA INDEX NAMES:

CN 1-Propene, 2-methyl-, polymer with 2,5-furandione, compd. with guanidine, ammonium salt (9CI)
 MF (C₄ H₈ . C₄ H₂ O₃)_x . x C H₅ N₃ . x H₃ N
 PCT Polyolefin, Polyvinyl
 SR CA
 LC STN Files: CA, CAPLUS

CM 1

CRN 113-00-8
 CMF C H₅ N₃

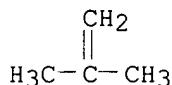


CM 2

CRN 26426-80-2
 CMF (C₄ H₈ . C₄ H₂ O₃)_x
 CCI PMS

CM 3

CRN 115-11-7
 CMF C₄ H₈



CM 4

CRN 108-31-6
 CMF C₄ H₂ O₃



1 REFERENCES IN FILE CA (1967 TO DATE)
 1 REFERENCES IN FILE CAPLUS (1967 TO DATE)

REFERENCE 1: 134:374103

L89 ANSWER 6 OF 155 REGISTRY COPYRIGHT 2002 ACS
 RN 317802-93-0 REGISTRY
 CN 2-Propenoic acid, polymer with ethene, 2-(diethylamino)ethyl ester (9CI)
 (CA INDEX NAME)
 OTHER CA INDEX NAMES:
 CN Ethene, polymer with 2-propenoic acid, 2-(diethylamino)ethyl ester (9CI)
 OTHER NAMES:
 CN Ethylene-acrylic acid copolymer ester with diethylaminoethanol
 MF C₆ H₁₅ N O . x (C₃ H₄ O₂ . C₂ H₄)_x
 PCT Polyacrylic, Polyolefin

SR CA
 LC STN Files: CA, CAPLUS

CM 1

CRN 100-37-8
 CMF C6 H15 N O

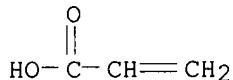
Et2N-CH2-CH2-OH

CM 2

CRN 9010-77-9
 CMF (C3 H4 O2 . C2 H4)x
 CCI PMS

CM 3

CRN 79-10-7
 CMF C3 H4 O2



CM 4

CRN 74-85-1
 CMF C2 H4

H2C=CH2

1 REFERENCES IN FILE CA (1967 TO DATE)
 1 REFERENCES IN FILE CAPLUS (1967 TO DATE)

REFERENCE 1: 134:86667

L89 ANSWER 7 OF 155 REGISTRY COPYRIGHT 2002 ACS

RN 263025-15-6 REGISTRY

CN 2-Propenoic acid, 2-methyl-, octadecyl ester, polymer with 2,5-furandione and 2-methyl-1-propene, ammonium salt (9CI) (CA INDEX NAME)

OTHER CA INDEX NAMES:

CN 1-Propene, 2-methyl-, polymer with 2,5-furandione and octadecyl 2-methyl-2-propenoate, ammonium salt (9CI)

CN 2,5-Furandione, polymer with 2-methyl-1-propene and octadecyl 2-methyl-2-propenoate, ammonium salt (9CI)

OTHER NAMES:

CN Isobutylene-maleic anhydride-stearyl methacrylate copolymer ammonium salt
 MF (C22 H42 O2 . C4 H8 . C4 H2 O3)x . x H3 N

PCT Polyacrylic, Polyolefin, Polyvinyl

SR CA

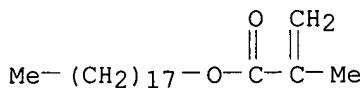
LC STN Files: CA, CAPLUS

CM 1

CRN 263025-14-5
 CMF (C₂₂ H₄₂ O₂ . C₄ H₈ . C₄ H₂ O₃)_x
 CCI PMS

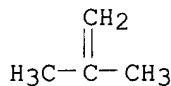
CM 2

CRN 32360-05-7
 CMF C₂₂ H₄₂ O₂



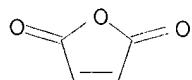
CM 3

CRN 115-11-7
 CMF C₄ H₈



CM 4

CRN 108-31-6
 CMF C₄ H₂ O₃



1 REFERENCES IN FILE CA (1967 TO DATE)
 1 REFERENCES IN FILE CAPLUS (1967 TO DATE)

REFERENCE 1: 132:252251

L89 ANSWER 8 OF 155 REGISTRY COPYRIGHT 2002 ACS
 RN 263025-13-4 REGISTRY
 CN 2-Propenoic acid, 2-methyl-, hexyl ester, polymer with 2,5-furandione and 2-methyl-1-propene, ammonium salt (9CI) (CA INDEX NAME)
 OTHER CA INDEX NAMES:
 CN 1-Propene, 2-methyl-, polymer with 2,5-furandione and hexyl 2-methyl-2-propenoate, ammonium salt (9CI)
 CN 2,5-Furandione, polymer with hexyl 2-methyl-2-propenoate and 2-methyl-1-propene, ammonium salt (9CI)
 OTHER NAMES:
 CN Hexyl methacrylate-isobutylene-maleic anhydride copolymer ammonium salt
 MF (C₁₀ H₁₈ O₂ . C₄ H₈ . C₄ H₂ O₃)_x . x H₃ N
 PCT Polyacrylic, Polyolefin, Polyvinyl
 SR CA
 LC STN Files: CA, CAPLUS

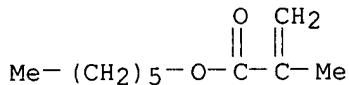
CM 1

CRN 263025-12-3

CMF (C10 H18 O2 . C4 H8 . C4 H2 O3)x
 CCI PMS

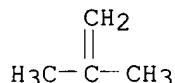
CM 2

CRN 142-09-6
 CMF C10 H18 O2



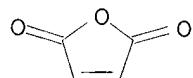
CM 3

CRN 115-11-7
 CMF C4 H8



CM 4

CRN 108-31-6
 CMF C4 H2 O3



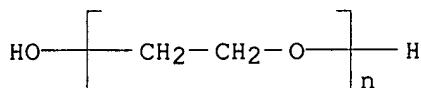
1 REFERENCES IN FILE CA (1967 TO DATE)
 1 REFERENCES IN FILE CAPLUS (1967 TO DATE)

REFERENCE 1: 132:252251

L89 ANSWER 9 OF 155 REGISTRY COPYRIGHT 2002 ACS
 RN 223463-61-4 REGISTRY
 CN 2,5-Furandione, polymer with .alpha.-hydro-.omega.-hydroxypoly(oxy-1,2-ethanediyl) and 2-methyl-1-propene, graft (9CI) (CA INDEX NAME)
 OTHER CA INDEX NAMES:
 CN 1-Propene, 2-methyl-, polymer with 2,5-furandione and .alpha.-hydro-.omega.-hydroxypoly(oxy-1,2-ethanediyl), graft (9CI)
 CN Poly(oxy-1,2-ethanediyl), .alpha.-hydro-.omega.-hydroxy-, polymer with 2,5-furandione and 2-methyl-1-propene, graft (9CI)
 MF (C4 H8 . C4 H2 O3 . (C2 H4 O)n H2 O)x
 CI PMS
 PCT Polyester, Polyester formed, Polyether, Polyolefin, Polyvinyl
 SR CA
 LC STN Files: CA, CAPLUS

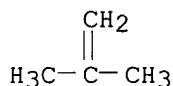
CM 1

CRN 25322-68-3
 CMF (C2 H4 O)n H2 O
 CCI PMS



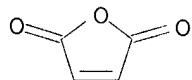
CM 2

CRN 115-11-7
 CMF C4 H8



CM 3

CRN 108-31-6
 CMF C4 H2 O3



1 REFERENCES IN FILE CA (1967 TO DATE)
 1 REFERENCES IN FILE CAPLUS (1967 TO DATE)

REFERENCE 1: 130:300554

L89 ANSWER 10 OF 155 REGISTRY COPYRIGHT 2002 ACS

RN 221347-89-3 REGISTRY

CN 2-Propenoic acid, polymer with dihydro-2,5-furandione, 2,5-furandione and .alpha.-hydro-.omega.-hydroxypoly(oxy-1,2-ethanediyl), graft, sodium salt (9CI) (CA INDEX NAME)

OTHER CA INDEX NAMES:

CN 2,5-Furandione, dihydro-, polymer with 2,5-furandione, .alpha.-hydro-.omega.-hydroxypoly(oxy-1,2-ethanediyl) and 2-propenoic acid, graft, sodium salt (9CI)

CN 2,5-Furandione, polymer with dihydro-2,5-furandione, .alpha.-hydro-.omega.-hydroxypoly(oxy-1,2-ethanediyl) and 2-propenoic acid, graft, sodium salt (9CI)

CN Poly(oxy-1,2-ethanediyl), .alpha.-hydro-.omega.-hydroxy-, polymer with dihydro-2,5-furandione, 2,5-furandione and 2-propenoic acid, graft, sodium salt (9CI)

MF (C4 H4 O3 . C4 H2 O3 . C3 H4 O2 . (C2 H4 O)n H2 O)x . x Na

PCT Polyacrylic, Polyester, Polyester formed, Polyether, Polyvinyl

SR CA

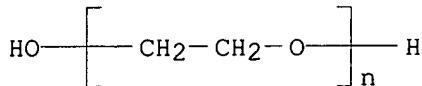
LC STN Files: CA, CAPLUS

CM 1

CRN 221347-88-2
 CMF (C4 H4 O3 . C4 H2 O3 . C3 H4 O2 . (C2 H4 O)n H2 O)x
 CCI PMS

CM 2

CRN 25322-68-3
 CMF (C₂ H₄ O)_n H₂ O
 CCI PMS



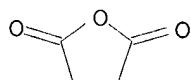
CM 3

CRN 108-31-6
 CMF C₄ H₂ O₃



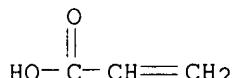
CM 4

CRN 108-30-5
 CMF C₄ H₄ O₃



CM 5

CRN 79-10-7
 CMF C₃ H₄ O₂



1 REFERENCES IN FILE CA (1967 TO DATE)
 1 REFERENCES IN FILE CAPLUS (1967 TO DATE)

REFERENCE 1: 130:241139

L89 ANSWER 11 OF 155 REGISTRY COPYRIGHT 2002 ACS
 RN 221347-88-2 REGISTRY
 CN 2-Propenoic acid, polymer with dihydro-2,5-furandione, 2,5-furandione and
 .alpha.-hydro-.omega.-hydroxypoly(oxy-1,2-ethanediyl), graft (9CI) (CA
 INDEX NAME)

OTHER CA INDEX NAMES:

CN 2,5-Furandione, dihydro-, polymer with 2,5-furandione,
 .alpha.-hydro-.omega.-hydroxypoly(oxy-1,2-ethanediyl) and 2-propenoic
 acid, graft (9CI)
 CN 2,5-Furandione, polymer with dihydro-2,5-furandione, .alpha.-hydro-.omega.-
 hydroxypoly(oxy-1,2-ethanediyl) and 2-propenoic acid, graft (9CI)

CN Poly(oxy-1,2-ethanediyl), .alpha.-hydro-.omega.-hydroxy-, polymer with dihydro-2,5-furandione, 2,5-furandione and 2-propenoic acid, graft (9CI)

OTHER NAMES:

CN Acrylic acid-maleic anhydride-polyethylene glycol-succinic anhydride graft copolymer

MF (C₄ H₄ O₃ . C₄ H₂ O₃ . C₃ H₄ O₂ . (C₂ H₄ O)_n H₂ O)_x

CI PMS, COM

PCT Polyacrylic, Polyester, Polyester formed, Polyether, Polyvinyl

SR CA

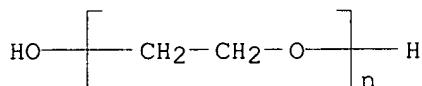
LC STN Files: CA, CAPLUS

CM 1

CRN 25322-68-3

CMF (C₂ H₄ O)_n H₂ O

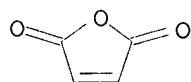
CCI PMS



CM 2

CRN 108-31-6

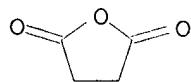
CMF C₄ H₂ O₃



CM 3

CRN 108-30-5

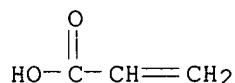
CMF C₄ H₄ O₃



CM 4

CRN 79-10-7

CMF C₃ H₄ O₂



1 REFERENCES IN FILE CA (1967 TO DATE)

1 REFERENCES TO NON-SPECIFIC DERIVATIVES IN FILE CA

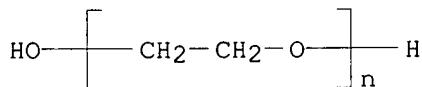
1 REFERENCES IN FILE CAPLUS (1967 TO DATE)

REFERENCE 1: 131:275746

L89 ANSWER 12 OF 155 REGISTRY COPYRIGHT 2002 ACS
 RN 221347-87-1 REGISTRY
 CN 2-Butenedioic acid (2Z)-, polymer with dihydro-2,5-furandione, .alpha.-hydro-.omega.-hydroxypoly(oxy-1,2-ethanediyl) and 2-propenoic acid, graft (9CI) (CA INDEX NAME)
 OTHER CA INDEX NAMES:
 CN 2,5-Furandione, dihydro-, polymer with (2Z)-2-butenedioic acid, .alpha.-hydro-.omega.-hydroxypoly(oxy-1,2-ethanediyl) and 2-propenoic acid, graft (9CI)
 CN 2-Propenoic acid, polymer with (2Z)-2-butenedioic acid, dihydro-2,5-furandione and .alpha.-hydro-.omega.-hydroxypoly(oxy-1,2-ethanediyl), graft (9CI)
 CN Poly(oxy-1,2-ethanediyl), .alpha.-hydro-.omega.-hydroxy-, polymer with (2Z)-2-butenedioic acid, dihydro-2,5-furandione and 2-propenoic acid, graft (9CI)
 FS STEREOSEARCH
 MF (C4 H4 O4 . C4 H4 O3 . C3 H4 O2 . (C2 H4 O)n H2 O)x
 CI PMS
 PCT Polyacrylic, Polyester, Polyester formed, Polyether, Polyvinyl
 SR CA
 LC STN Files: CA, CAPLUS

CM 1

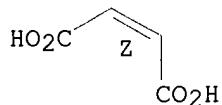
CRN 25322-68-3
 CMF (C2 H4 O)n H2 O
 CCI PMS



CM 2

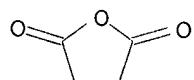
CRN 110-16-7
 CMF C4 H4 O4

Double bond geometry as shown.

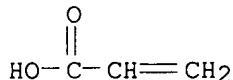


CM 3

CRN 108-30-5
 CMF C4 H4 O3



CM 4

CRN 79-10-7
CMF C3 H4 O21 REFERENCES IN FILE CA (1967 TO DATE)
1 REFERENCES IN FILE CAPLUS (1967 TO DATE)

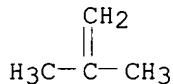
REFERENCE 1: 130:241139

L89 ANSWER 13 OF 155 REGISTRY COPYRIGHT 2002 ACS
 RN 218166-08-6 REGISTRY
 CN 2,5-Furandione, polymer with 2-methyl-1-propene, block, ammonium salt
 (9CI) (CA INDEX NAME)
 OTHER CA INDEX NAMES:
 CN 1-Propene, 2-methyl-, polymer with 2,5-furandione, block, ammonium salt
 (9CI)
 MF (C4 H8 . C4 H2 O3)x . x H3 N
 PCT Polyolefin, Polyvinyl
 SR CA
 LC STN Files: CA, CAPLUS

CM 1

CRN 218166-07-5
CMF (C4 H8 . C4 H2 O3)x
CCI PMS

CM 2

CRN 115-11-7
CMF C4 H8

CM 3

CRN 108-31-6
CMF C4 H2 O31 REFERENCES IN FILE CA (1967 TO DATE)
1 REFERENCES IN FILE CAPLUS (1967 TO DATE)

REFERENCE 1: 130:67589

L89 ANSWER 14 OF 155 REGISTRY COPYRIGHT 2002 ACS

RN 218166-07-5 REGISTRY

CN 2,5-Furandione, polymer with 2-methyl-1-propene, block (9CI) (CA INDEX NAME)

OTHER CA INDEX NAMES:

CN 1-Propene, 2-methyl-, polymer with 2,5-furandione, block (9CI)

MF (C4 H8 . C4 H2 O3)x

CI PMS, COM

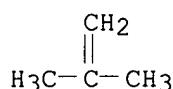
PCT Polyolefin, Polyvinyl

SR CA

CM 1

CRN 115-11-7

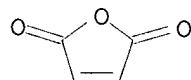
CMF C4 H8



CM 2

CRN 108-31-6

CMF C4 H2 O3



L89 ANSWER 15 OF 155 REGISTRY COPYRIGHT 2002 ACS

RN 213197-91-2 REGISTRY

CN 2-Propenoic acid, 2-methyl-, polymer with 2-methyl-1-propene, block (9CI) (CA INDEX NAME)

OTHER CA INDEX NAMES:

CN 1-Propene, 2-methyl-, polymer with 2-methyl-2-propenoic acid, block (9CI)

OTHER NAMES:

CN Isobutylene-methacrylic acid block copolymer

MF (C4 H8 . C4 H6 O2)x

CI PMS

PCT Polyacrylic, Polyolefin

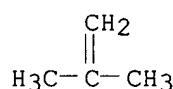
SR CA

LC STN Files: CA, CAPLUS

CM 1

CRN 115-11-7

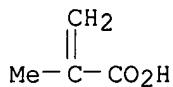
CMF C4 H8



CM 2

CRN 79-41-4

CMF C4 H6 O2



3 REFERENCES IN FILE CA (1967 TO DATE)
 3 REFERENCES IN FILE CAPLUS (1967 TO DATE)

REFERENCE 1: 133:322360

REFERENCE 2: 129:290454

REFERENCE 3: 129:245580

L89 ANSWER 16 OF 155 REGISTRY COPYRIGHT 2002 ACS

RN 213031-80-2 REGISTRY

CN 2-Propenoic acid, 2-methyl-, methyl ester, polymer with 2,5-furandione and 2-methyl-1-propene, sodium salt (9CI) (CA INDEX NAME)

OTHER CA INDEX NAMES:

CN 1-Propene, 2-methyl-, polymer with 2,5-furandione and methyl 2-methyl-2-propenoate, sodium salt (9CI)

CN 2,5-Furandione, polymer with methyl 2-methyl-2-propenoate and 2-methyl-1-propene, sodium salt (9CI)

MF (C5 H8 O2 . C4 H8 . C4 H2 O3)x . x Na

PCT Polyacrylic, Polyolefin, Polyvinyl

SR CA

LC STN Files: CA, CAPLUS

CM 1

CRN 105995-60-6

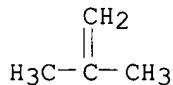
CMF (C5 H8 O2 . C4 H8 . C4 H2 O3)x

CCI PMS

CM 2

CRN 115-11-7

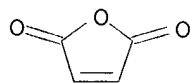
CMF C4 H8



CM 3

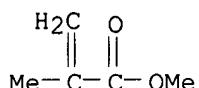
CRN 108-31-6

CMF C4 H2 O3



CM 4

CRN 80-62-6
 CMF C5 H8 O2



1 REFERENCES IN FILE CA (1967 TO DATE)
 1 REFERENCES IN FILE CAPLUS (1967 TO DATE)

REFERENCE 1: 129:252524

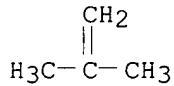
L89 ANSWER 17 OF 155 REGISTRY COPYRIGHT 2002 ACS
 RN 213031-78-8 REGISTRY
 CN 2-Propenoic acid, 2-methyl-, methyl ester, polymer with 2,5-furandione and
 2-methyl-1-propene, ammonium salt (9CI) (CA INDEX NAME)
 OTHER CA INDEX NAMES:
 CN 1-Propene, 2-methyl-, polymer with 2,5-furandione and methyl
 2-methyl-2-propenoate, ammonium salt (9CI)
 CN 2,5-Furandione, polymer with methyl 2-methyl-2-propenoate and
 2-methyl-1-propene, ammonium salt (9CI)
 MF (C5 H8 O2 . C4 H8 . C4 H2 O3)x . x H3 N
 PCT Polyacrylic, Polyolefin, Polyvinyl
 SR CA
 LC STN Files: CA, CAPLUS

CM 1

CRN 105995-60-6
 CMF (C5 H8 O2 . C4 H8 . C4 H2 O3)x
 CCI PMS

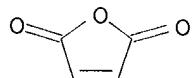
CM 2

CRN 115-11-7
 CMF C4 H8



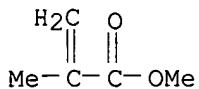
CM 3

CRN 108-31-6
 CMF C4 H2 O3



CM 4

CRN 80-62-6
 CMF C5 H8 O2



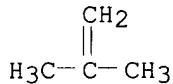
1 REFERENCES IN FILE CA (1967 TO DATE)
 1 REFERENCES IN FILE CAPLUS (1967 TO DATE)

REFERENCE 1: 129:252524

L89 ANSWER 18 OF 155 REGISTRY COPYRIGHT 2002 ACS
 RN 212006-66-1 REGISTRY
 CN Butanedioic acid, polymer with 2-methyl-1-propene (9CI) (CA INDEX NAME)
 OTHER CA INDEX NAMES:
 CN 1-Propene, 2-methyl-, polymer with butanedioic acid (9CI)
 MF (C4 H8 . C4 H6 O4)x
 CI PMS
 PCT Polyolefin, Polyether
 SR CA
 LC STN Files: CA, CAPLUS, USPATFULL

CM 1

CRN 115-11-7
 CMF C4 H8



CM 2

CRN 110-15-6
 CMF C4 H6 O4



1 REFERENCES IN FILE CA (1967 TO DATE)
 1 REFERENCES TO NON-SPECIFIC DERIVATIVES IN FILE CA
 1 REFERENCES IN FILE CAPLUS (1967 TO DATE)

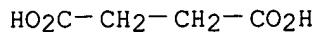
REFERENCE 1: 129:205088

L89 ANSWER 19 OF 155 REGISTRY COPYRIGHT 2002 ACS
 RN 210491-61-5 REGISTRY
 CN Butanedioic acid, monoester with 1,2,3-propanetriol mono(2-methyl-2-propenoate) mono-2-propenoate (9CI) (CA INDEX NAME)
 OTHER NAMES:
 CN Glycerol acrylate methacrylate succinate half-ester
 MF C14 H18 O8
 CI IDS
 SR CA
 LC STN Files: CA, CAPLUS

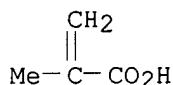
CM 1

CRN 110-15-6

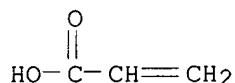
CMF C4 H6 O4



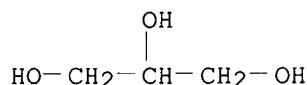
CM 2

CRN 79-41-4
CMF C4 H6 O2

CM 3

CRN 79-10-7
CMF C3 H4 O2

CM 4

CRN 56-81-5
CMF C3 H8 O31 REFERENCES IN FILE CA (1967 TO DATE)
1 REFERENCES IN FILE CAPLUS (1967 TO DATE)

REFERENCE 1: 129:137515

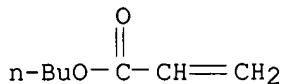
L89 ANSWER 20 OF 155 REGISTRY COPYRIGHT 2002 ACS
 RN 205437-70-3 REGISTRY
 CN 2-Propenoic acid, butyl ester, polymer with 2,5-furandione and
 2-methyl-1-propene, sodium salt (9CI) (CA INDEX NAME)
 OTHER CA INDEX NAMES:
 CN 1-Propene, 2-methyl-, polymer with butyl 2-propenoate and 2,5-furandione,
 sodium salt (9CI)
 CN 2,5-Furandione, polymer with butyl 2-propenoate and 2-methyl-1-propene,
 sodium salt (9CI)
 MF (C7 H12 O2 . C4 H8 . C4 H2 O3)x . x Na
 PCT Polyacrylic, Polyolefin, Polyvinyl
 SR CA
 LC STN Files: CA, CAPLUS

CM 1

CRN 58413-54-0
 CMF (C₇ H₁₂ O₂ . C₄ H₈ . C₄ H₂ O₃)_x
 CCI PMS

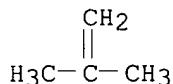
CM 2

CRN 141-32-2
 CMF C₇ H₁₂ O₂



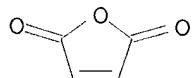
CM 3

CRN 115-11-7
 CMF C₄ H₈



CM 4

CRN 108-31-6
 CMF C₄ H₂ O₃



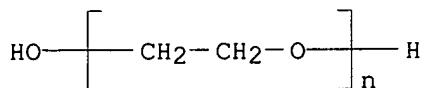
1 REFERENCES IN FILE CA (1967 TO DATE)
 1 REFERENCES IN FILE CAPLUS (1967 TO DATE)

REFERENCE 1: 128:263978

L89 ANSWER 21 OF 155 REGISTRY COPYRIGHT 2002 ACS
 RN 204637-22-9 REGISTRY
 CN 2,5-Furandione, polymer with ethene and .alpha.-hydro-.omega.-hydroxypoly(oxy-1,2-ethanediyl), graft (9CI) (CA INDEX NAME)
 OTHER CA INDEX NAMES:
 CN Ethene, polymer with 2,5-furandione and .alpha.-hydro-.omega.-hydroxypoly(oxy-1,2-ethanediyl), graft (9CI)
 CN Poly(oxy-1,2-ethanediyl), .alpha.-hydro-.omega.-hydroxy-, polymer with ethene and 2,5-furandione, graft (9CI)
 MF (C₄ H₂ O₃ . (C₂ H₄ O)_n H₂ O . C₂ H₄)_x
 CI PMS, COM
 PCT Polyester, Polyester formed, Polyether, Polyolefin, Polyvinyl
 SR CA

CM 1

CRN 25322-68-3
 CMF (C₂ H₄ O)_n H₂ O
 CCI PMS



CM 2

CRN 108-31-6
 CMF C4 H2 O3



CM 3

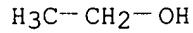
CRN 74-85-1
 CMF C2 H4



L89 ANSWER 22 OF 155 REGISTRY COPYRIGHT 2002 ACS
 RN 204528-38-1 REGISTRY
 CN 2,5-Furandione, polymer with 2-methyl-1-propene, ethyl ester, sodium salt
 (9CI) (CA INDEX NAME)
 OTHER CA INDEX NAMES:
 CN 1-Propene, 2-methyl-, polymer with 2,5-furandione, ethyl ester, sodium
 salt (9CI)
 MF (C4 H8 . C4 H2 O3)x . x C2 H6 O . x Na
 PCT Polyolefin, Polyvinyl
 SR CA
 LC STN Files: CA, CAPLUS

CM 1

CRN 64-17-5
 CMF C2 H6 O

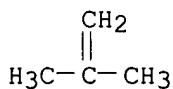


CM 2

CRN 26426-80-2
 CMF (C4 H8 . C4 H2 O3)x
 CCI PMS

CM 3

CRN 115-11-7
 CMF C4 H8



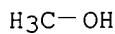
CM 4

CRN 108-31-6
CMF C4 H2 O31 REFERENCES IN FILE CA (1967 TO DATE)
1 REFERENCES IN FILE CAPLUS (1967 TO DATE)

REFERENCE 1: 128:232620

L89 ANSWER 23 OF 155 REGISTRY COPYRIGHT 2002 ACS
 RN 204528-37-0 REGISTRY
 CN 2,5-Furandione, polymer with 2-methyl-1-propene, methyl ester, ammonium salt (9CI) (CA INDEX NAME)
 OTHER CA INDEX NAMES:
 CN 1-Propene, 2-methyl-, polymer with 2,5-furandione, methyl ester, ammonium salt (9CI)
 MF (C4 H8 . C4 H2 O3)x . x C H4 O . x H3 N
 PCT Polyolefin, Polyvinyl
 SR CA
 LC STN Files: CA, CAPLUS

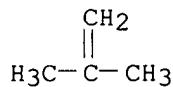
CM 1

CRN 67-56-1
CMF C H4 O

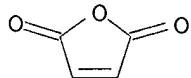
CM 2

CRN 26426-80-2
CMF (C4 H8 . C4 H2 O3)x
CCI PMS

CM 3

CRN 115-11-7
CMF C4 H8

CM 4

CRN 108-31-6
CMF C4 H2 O31 REFERENCES IN FILE CA (1967 TO DATE)
1 REFERENCES IN FILE CAPLUS (1967 TO DATE)

REFERENCE 1: 128:232620

L89 ANSWER 24 OF 155 REGISTRY COPYRIGHT 2002 ACS
 RN 200888-50-2 REGISTRY
 CN Oxirane, polymer with ethene and .alpha.-hydro-.omega.-hydroxypoly(oxy-1,2-ethanediyl) 2-methyl-2-propenoate, graft (9CI) (CA INDEX NAME)
 OTHER CA INDEX NAMES:
 CN Ethene, polymer with .alpha.-hydro-.omega.-hydroxypoly(oxy-1,2-ethanediyl) 2-methyl-2-propenoate and oxirane, graft (9CI)
 CN Poly(oxy-1,2-ethanediyl), .alpha.-hydro-.omega.-hydroxy-, 2-methyl-2-propenoate, polymer with ethene and oxirane, graft (9CI)
 OTHER NAMES:
 CN Ethylene-ethylene oxide-polyethylene glycol methacrylate graft copolymer
 MF (C4 H6 O2 . x (C2 H4 O)n H2 O . C2 H4 O . C2 H4)x
 CI PMS
 PCT Polyacrylic, Polyether, Polyether formed, Polyolefin
 SR CA
 LC STN Files: CA, CAPLUS, USPATFULL

CM 1

CRN 75-21-8
CMF C2 H4 O

CM 2

CRN 74-85-1
CMF C2 H4

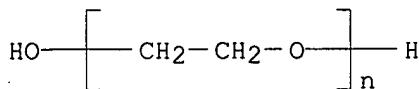
CM 3

CRN 9056-77-3
CMF C4 H6 O2 . x (C2 H4 O)n H2 O

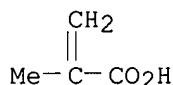
CM 4

CRN 25322-68-3
CMF (C2 H4 O)n H2 O

CCI PMS



CM 5

CRN 79-41-4
CMF C4 H6 O22 REFERENCES IN FILE CA (1967 TO DATE)
2 REFERENCES IN FILE CAPLUS (1967 TO DATE)

REFERENCE 1: 129:123563

REFERENCE 2: 128:89572

L89 ANSWER 25 OF 155 REGISTRY COPYRIGHT 2002 ACS
RN 196413-49-7 REGISTRY
CN 2-Propenoic acid, polymer with ethene and oxirane, graft (9CI) (CA INDEX NAME)

OTHER CA INDEX NAMES:

CN Ethene, polymer with oxirane and 2-propenoic acid, graft (9CI)
CN Oxirane, polymer with ethene and 2-propenoic acid, graft (9CI)

OTHER NAMES:

CN Acrylic acid-ethylene-ethylene oxide graft copolymer

MF (C3 H4 O2 . C2 H4 O . C2 H4)x

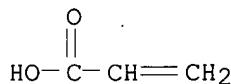
CI PMS, COM

PCT Polyacrylic, Polyether, Polyether formed, Polyolefin

SR CA

LC STN Files: CA, CAPLUS

CM 1

CRN 79-10-7
CMF C3 H4 O2

CM 2

CRN 75-21-8
CMF C2 H4 O

CM 3

CRN 74-85-1
CMF C2 H4 $\text{H}_2\text{C}=\text{CH}_2$ 1 REFERENCES IN FILE CA (1967 TO DATE)
1 REFERENCES IN FILE CAPLUS (1967 TO DATE)

REFERENCE 1: 132:94030

L89 ANSWER 26 OF 155 REGISTRY COPYRIGHT 2002 ACS
 RN 196413-47-5 REGISTRY
 CN 2-Propenoic acid, 2-methyl-, polymer with ethene and oxirane, methyl ether, graft (9CI) (CA INDEX NAME)
 OTHER CA INDEX NAMES:
 CN Ethene, polymer with 2-methyl-2-propenoic acid and oxirane, methyl ether, graft (9CI)
 CN Oxirane, polymer with ethene and 2-methyl-2-propenoic acid, methyl ether, graft (9CI)
 MF (C4 H6 O2 . C2 H4 O . C2 H4)x . x C H4 O
 PCT Polyacrylic, Polyether, Polyether formed, Polyolefin
 SR CA
 LC STN Files: CA, CAPLUS

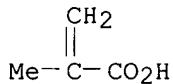
CM 1

CRN 67-56-1
CMF C H4 O $\text{H}_3\text{C}-\text{OH}$

CM 2

CRN 196305-71-2
CMF (C4 H6 O2 . C2 H4 O . C2 H4)x
CCI PMS

CM 3

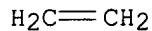
CRN 79-41-4
CMF C4 H6 O2

CM 4

CRN 75-21-8
CMF C2 H4 O



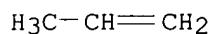
CM 5

CRN 74-85-1
CMF C2 H41 REFERENCES IN FILE CA (1967 TO DATE)
1 REFERENCES IN FILE CAPLUS (1967 TO DATE)

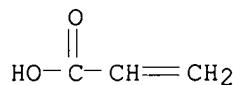
REFERENCE 1: 127:294102

L89 ANSWER 27 OF 155 REGISTRY COPYRIGHT 2002 ACS
 RN 196305-73-4 REGISTRY
 CN 2-Propenoic acid, polymer with oxirane and 1-propene, block, graft (9CI)
 (CA INDEX NAME)
 OTHER CA INDEX NAMES:
 CN 1-Propene, polymer with 2-propenoic acid and oxirane, block, graft (9CI)
 CN Oxirane, polymer with 2-propenoic acid and 1-propene, block, graft (9CI)
 MF (C3 H6 . C3 H4 O2 . C2 H4 O)x
 CI PMS, COM
 PCT Polyacrylic, Polyether, Polyether formed, Polyolefin
 SR CA

CM 1

CRN 115-07-1
CMF C3 H6

CM 2

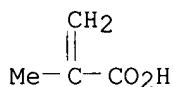
CRN 79-10-7
CMF C3 H4 O2

CM 3

CRN 75-21-8
CMF C2 H4 O

L89 ANSWER 28 OF 155 REGISTRY COPYRIGHT 2002 ACS
 RN 196305-71-2 REGISTRY
 CN 2-Propenoic acid, 2-methyl-, polymer with ethene and oxirane, graft (9CI)
 (CA INDEX NAME)
 OTHER CA INDEX NAMES:
 CN Ethene, polymer with 2-methyl-2-propenoic acid and oxirane, graft (9CI)
 CN Oxirane, polymer with ethene and 2-methyl-2-propenoic acid, graft (9CI)
 MF (C4 H6 O2 . C2 H4 O . C2 H4)x
 CI PMS, COM
 PCT Polyacrylic, Polyether, Polyether formed, Polyolefin
 SR CA

CM 1

CRN 79-41-4
CMF C4 H6 O2

CM 2

CRN 75-21-8
CMF C2 H4 O

CM 3

CRN 74-85-1
CMF C2 H4

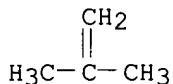
L89 ANSWER 29 OF 155 REGISTRY COPYRIGHT 2002 ACS
 RN 195990-97-7 REGISTRY
 CN 2,5-Furandione, polymer with 2-methyl-1-propene and 1-octadecene, sodium
 salt (9CI) (CA INDEX NAME)
 OTHER CA INDEX NAMES:
 CN 1-Octadecene, polymer with 2,5-furandione and 2-methyl-1-propene, sodium
 salt (9CI)
 CN 1-Propene, 2-methyl-, polymer with 2,5-furandione and 1-octadecene, sodium
 salt (9CI)
 OTHER NAMES:
 CN Isobutylene-maleic anhydride-1-octadecene copolymer sodium salt
 MF (C18 H36 . C4 H8 . C4 H2 O3)x . x Na
 PCT Polyolefin, Polyvinyl
 SR CA
 LC STN Files: CA, CAPLUS

CM 1

CRN 195990-96-6
 CMF (C18 H36 . C4 H8 . C4 H2 O3)x
 CCI PMS

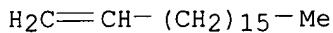
CM 2

CRN 115-11-7
 CMF C4 H8



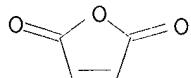
CM 3

CRN 112-88-9
 CMF C18 H36



CM 4

CRN 108-31-6
 CMF C4 H2 O3



1 REFERENCES IN FILE CA (1967 TO DATE)
 1 REFERENCES IN FILE CAPLUS (1967 TO DATE)

REFERENCE 1: 127:264582

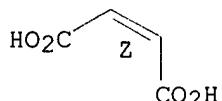
L89 ANSWER 30 OF 155 REGISTRY COPYRIGHT 2002 ACS
 RN 195209-31-5 REGISTRY
 CN 2-Butenedioic acid (2Z)-, polymer with ethene and 2,2',2'''-nitrilotris[ethanol] (9CI) (CA INDEX NAME)
 OTHER CA INDEX NAMES:
 CN 2-Butenedioic acid (Z)-, polymer with ethene and 2,2',2'''-nitrilotris[ethanol]
 CN Ethanol, 2,2',2'''-nitrilotris-, polymer with (2Z)-2-butenedioic acid and ethene (9CI)
 CN Ethanol, 2,2',2'''-nitrilotris-, polymer with (Z)-2-butenedioic acid and ethene
 CN Ethene, polymer with (2Z)-2-butenedioic acid and 2,2',2'''-nitrilotris[ethanol] (9CI)
 CN Ethene, polymer with (Z)-2-butenedioic acid and 2,2',2'''-nitrilotris[ethanol]
 OTHER NAMES:
 CN Ethylene-maleic acid-triethanolamine copolymer
 FS STEREOSEARCH
 MF (C6 H15 N O3 . C4 H4 O4 . C2 H4)x

CI PMS
 PCT Polyamine, Polyester, Polyester formed, Polyolefin, Polyvinyl
 SR CA
 LC STN Files: CA, CAPLUS, USPATFULL

CM 1

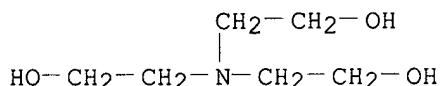
CRN 110-16-7
 CMF C4 H4 O4

Double bond geometry as shown.



CM 2

CRN 102-71-6
 CMF C6 H15 N O3



CM 3

CRN 74-85-1
 CMF C2 H4



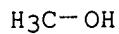
1 REFERENCES IN FILE CA (1967 TO DATE)
 1 REFERENCES IN FILE CAPLUS (1967 TO DATE)

REFERENCE 1: 127:235131

L89 ANSWER 31 OF 155 REGISTRY COPYRIGHT 2002 ACS
 RN 193362-33-3 REGISTRY
 CN 2-Propenoic acid, 2-methyl-, polymer with 2,5-furandione,
 2-methyl-1-propene and oxirane, methyl ether, graft (9CI) (CA INDEX NAME)
 OTHER CA INDEX NAMES:
 CN 1-Propene, 2-methyl-, polymer with 2,5-furandione, 2-methyl-2-propenoic
 acid and oxirane, methyl ether, graft (9CI)
 CN 2,5-Furandione, polymer with 2-methyl-1-propene, 2-methyl-2-propenoic acid
 and oxirane, methyl ether, graft (9CI)
 CN Oxirane, polymer with 2,5-furandione, 2-methyl-1-propene and
 2-methyl-2-propenoic acid, methyl ether, graft (9CI)
 MF (C4 H8 . C4 H6 O2 . C4 H2 O3 . C2 H4 O)x . x C H4 O
 PCT Polyacrylic, Polyester, Polyester formed, Polyether, Polyether formed,
 Polyolefin, Polyvinyl
 SR CA
 LC STN Files: CA, CAPLUS

CM 1

CRN 67-56-1
 CMF C H4 O

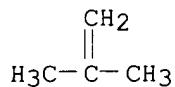


CM 2

CRN 193154-81-3
 CMF (C₄ H₈ . C₄ H₆ O₂ . C₄ H₂ O₃ . C₂ H₄ O)x
 CCI PMS

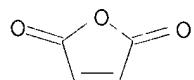
CM 3

CRN 115-11-7
 CMF C₄ H₈



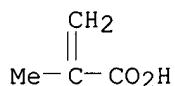
CM 4

CRN 108-31-6
 CMF C₄ H₂ O₃



CM 5

CRN 79-41-4
 CMF C₄ H₆ O₂



CM 6

CRN 75-21-8
 CMF C₂ H₄ O



1 REFERENCES IN FILE CA (1967 TO DATE)
 1 REFERENCES IN FILE CAPLUS (1967 TO DATE)

REFERENCE 1: 127:149545

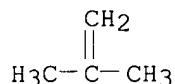
L89 ANSWER 32 OF 155 REGISTRY COPYRIGHT 2002 ACS
 RN 191175-18-5 REGISTRY
 CN 2-Butenedioic acid (2Z)-, polymer with 2-methyl-1-propene and octadecene,
 sodium salt (9CI) (CA INDEX NAME)
 OTHER CA INDEX NAMES:
 CN 1-Propene, 2-methyl-, polymer with (2Z)-2-butenedioic acid and octadecene,
 sodium salt (9CI)
 CN 1-Propene, 2-methyl-, polymer with (Z)-2-butenedioic acid and octadecene,
 sodium salt
 CN 2-Butenedioic acid (Z)-, polymer with 2-methyl-1-propene and octadecene,
 sodium salt
 CN Octadecene, polymer with (2Z)-2-butenedioic acid and 2-methyl-1-propene,
 sodium salt (9CI)
 CN Octadecene, polymer with (Z)-2-butenedioic acid and 2-methyl-1-propene,
 sodium salt
 FS STEREOSEARCH
 MF (C18 H36 . C4 H8 . C4 H4 O4)x . x Na
 PCT Polyolefin, Polyether, Polyvinyl
 SR CAS Registry Services
 LC STN Files: CHEMLIST

CM 1

CRN 191175-17-4
 CMF (C18 H36 . C4 H8 . C4 H4 O4)x
 CCI PMS

CM 2

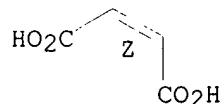
CRN 115-11-7
 CMF C4 H8



CM 3

CRN 110-16-7
 CMF C4 H4 O4

Double bond geometry as shown.



CM 4

CRN 27070-58-2
 CMF C18 H36
 CCI IDS

CM 5

CRN 593-45-3
 CMF C18 H38

Me- (CH₂)₁₆- Me

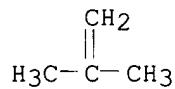
L89 ANSWER 33 OF 155 REGISTRY COPYRIGHT 2002 ACS
 RN 190454-10-5 REGISTRY
 CN 2-Butenedioic acid (2Z)-, polymer with 2-methyl-1-propene and
 1-octadecene, sodium salt (9CI) (CA INDEX NAME)
 OTHER CA INDEX NAMES:
 CN 1-Octadecene, polymer with (2Z)-2-butenedioic acid and 2-methyl-1-propene,
 sodium salt (9CI)
 CN 1-Octadecene, polymer with (Z)-2-butenedioic acid and 2-methyl-1-propene,
 sodium salt
 CN 1-Propene, 2-methyl-, polymer with (2Z)-2-butenedioic acid and
 1-octadecene, sodium salt (9CI)
 CN 1-Propene, 2-methyl-, polymer with (Z)-2-butenedioic acid and
 1-octadecene, sodium salt
 CN 2-Butenedioic acid (Z)-, polymer with 2-methyl-1-propene and 1-octadecene,
 sodium salt
 FS STEREOSEARCH
 MF (C18 H36 . C4 H8 . C4 H4 O4)x . x Na
 PCT Polyolefin, Polyvinyl
 SR CAS Registry Services

CM 1

CRN 190454-09-2
 CMF (C18 H36 . C4 H8 . C4 H4 O4)x
 CCI PMS

CM 2

CRN 115-11-7
 CMF C4 H8



CM 3

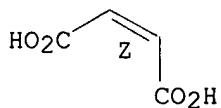
CRN 112-88-9
 CMF C18 H36

H₂C=CH- (CH₂)₁₅- Me

CM 4

CRN 110-16-7
 CMF C4 H4 O4

Double bond geometry as shown.



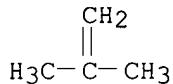
L89 ANSWER 34 OF 155 REGISTRY COPYRIGHT 2002 ACS
 RN 180641-24-1 REGISTRY
 CN 2,5-Furandione, polymer with 2-methyl-1-propene, alternating, ammonium salt (9CI) (CA INDEX NAME)
 OTHER CA INDEX NAMES:
 CN 1-Propene, 2-methyl-, polymer with 2,5-furandione, alternating, ammonium salt (9CI)
 MF (C₄ H₈ . C₄ H₂ O₃)_x . x H₃ N
 PCT Polyolefin, Polyvinyl
 SR CA
 LC STN Files: CA, CAPLUS

CM 1

CRN 110171-93-2
 CMF (C₄ H₈ . C₄ H₂ O₃)_x
 CCI PMS

CM 2

CRN 115-11-7
 CMF C₄ H₈



CM 3

CRN 108-31-6
 CMF C₄ H₂ O₃



1 REFERENCES IN FILE CA (1967 TO DATE)
 1 REFERENCES IN FILE CAPLUS (1967 TO DATE)

REFERENCE 1: 125:181467

L89 ANSWER 35 OF 155 REGISTRY COPYRIGHT 2002 ACS
 RN 169952-27-6 REGISTRY
 CN 2-Propenoic acid, butyl ester, polymer with 2,5-furandione and 2-methyl-1-propene, zinc salt (9CI) (CA INDEX NAME)
 OTHER CA INDEX NAMES:
 CN 1-Propene, 2-methyl-, polymer with butyl 2-propenoate and 2,5-furandione, zinc salt (9CI)
 CN 2,5-Furandione, polymer with butyl 2-propenoate and 2-methyl-1-propene, zinc salt (9CI)

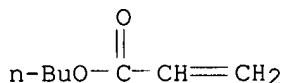
MF (C₇ H₁₂ O₂ . C₄ H₈ . C₄ H₂ O₃)_x . x Zn
 PCT Polyacrylic, Polyolefin, Polyvinyl
 SR CA
 LC STN Files: CA, CAPLUS

CM 1

CRN 58413-54-0
 CMF (C₇ H₁₂ O₂ . C₄ H₈ . C₄ H₂ O₃)_x
 CCI PMS

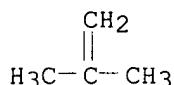
CM 2

CRN 141-32-2
 CMF C₇ H₁₂ O₂



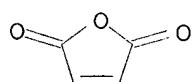
CM 3

CRN 115-11-7
 CMF C₄ H₈



CM 4

CRN 108-31-6
 CMF C₄ H₂ O₃



1 REFERENCES IN FILE CA (1967 TO DATE)
 1 REFERENCES IN FILE CAPLUS (1967 TO DATE)

REFERENCE 1: 123:288220

L89 ANSWER 36 OF 155 REGISTRY COPYRIGHT 2002 ACS
 RN 169952-26-5 REGISTRY
 CN 2-Propenoic acid, butyl ester, polymer with 2,5-furandione and
 2-methyl-1-propene, magnesium salt (9CI) (CA INDEX NAME)
 OTHER CA INDEX NAMES:
 CN 1-Propene, 2-methyl-, polymer butyl 2-propenoate and 2,5-furandione,
 magnesium salt (9CI)
 CN 2,5-Furandione, polymer with butyl 2-propenoate and 2-methyl-1-propene,
 magnesium salt (9CI)
 MF (C₇ H₁₂ O₂ . C₄ H₈ . C₄ H₂ O₃)_x . x Mg
 PCT Polyacrylic, Polyolefin, Polyvinyl
 SR CA

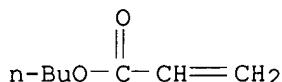
LC STN Files: CA, CAPLUS

CM 1

CRN 58413-54-0
 CMF (C₇ H₁₂ O₂ . C₄ H₈ . C₄ H₂ O₃)_x
 CCI PMS

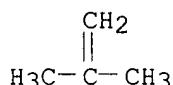
CM 2

CRN 141-32-2
 CMF C₇ H₁₂ O₂



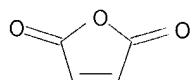
CM 3

CRN 115-11-7
 CMF C₄ H₈



CM 4

CRN 108-31-6
 CMF C₄ H₂ O₃



1 REFERENCES IN FILE CA (1967 TO DATE)
 1 REFERENCES IN FILE CAPLUS (1967 TO DATE)

REFERENCE 1: 123:288220

L89 ANSWER 37 OF 155 REGISTRY COPYRIGHT 2002 ACS
 RN 168980-03-8 REGISTRY
 CN 2,5-Furandione, polymer with ethene and oxirane, graft (9CI) (CA INDEX NAME)
 OTHER CA INDEX NAMES:
 CN Ethene, polymer with 2,5-furandione and oxirane, graft (9CI)
 CN Oxirane, polymer with ethene and 2,5-furandione, graft (9CI)
 OTHER NAMES:
 CN Ethylene-ethylene oxide-maleic anhydride graft copolymer
 CN Ethylene-maleic anhydride-oxirane graft copolymer
 MF (C₄ H₂ O₃ . C₂ H₄ O . C₂ H₄)_x
 CI PMS, COM
 PCT Polyester, Polyester formed, Polyether, Polyether formed, Polyolefin,
 Polyvinyl
 SR CA

LC STN Files: CA, CAPLUS

CM 1

CRN 108-31-6
CMF C4 H2 O3

CM 2

CRN 75-21-8
CMF C2 H4 O

CM 3

CRN 74-85-1
CMF C2 H4

2 REFERENCES IN FILE CA (1967 TO DATE)
 2 REFERENCES TO NON-SPECIFIC DERIVATIVES IN FILE CA
 2 REFERENCES IN FILE CAPLUS (1967 TO DATE)

REFERENCE 1: 129:5132

REFERENCE 2: 123:287803

L89 ANSWER 38 OF 155 REGISTRY COPYRIGHT 2002 ACS

RN 162414-22-4 REGISTRY

CN 2-Propenoic acid, 2-methyl-, monoester with 1,2,3-propanetriol, polymer
with ethene, graft (9CI) (CA INDEX NAME)

OTHER CA INDEX NAMES:

CN Ethene, polymer with 1,2,3-propanetriol mono(2-methyl-2-propenoate), graft
(9CI)

MF (C7 H12 O4 . C2 H4)x

CI PMS

PCT Polyacrylic, Polyester, Polyolefin, Polyether

SR CA

LC STN Files: CA, CAPLUS

CM 1

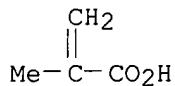
CRN 74-85-1
CMF C2 H4

CM 2

CRN 50853-28-6
 CMF C7 H12 O4
 CCI IDS

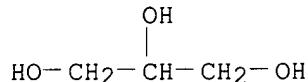
CM 3

CRN 79-41-4
 CMF C4 H6 O2



CM 4

CRN 56-81-5
 CMF C3 H8 O3



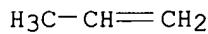
1 REFERENCES IN FILE CA (1967 TO DATE)
 1 REFERENCES IN FILE CAPLUS (1967 TO DATE)

REFERENCE 1: 122:241853

L89 ANSWER 39 OF 155 REGISTRY COPYRIGHT 2002 ACS
 RN 162024-58-0 REGISTRY
 CN 2-Propenoic acid, 2-methyl-, monoester with 1,2,3-propanetriol, polymer
 with 1-propene, graft (9CI) (CA INDEX NAME)
 OTHER CA INDEX NAMES:
 CN 1-Propene, polymer with 1,2,3-propanetriol mono(2-methyl-2-propenoate),
 graft (9CI)
 MF (C7 H12 O4 . C3 H6)x
 CI PMS
 PCT Polyacrylic, Polyester, Polyolefin, Polyether
 SR CA
 LC STN Files: CA, CAPLUS

CM 1

CRN 115-07-1
 CMF C3 H6

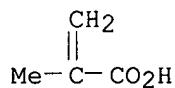


CM 2

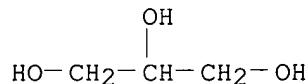
CRN 50853-28-6
 CMF C7 H12 O4

CCI IDS

CM 3

CRN 79-41-4
CMF C4 H6 O2

CM 4

CRN 56-81-5
CMF C3 H8 O31 REFERENCES IN FILE CA (1967 TO DATE)
1 REFERENCES IN FILE CAPLUS (1967 TO DATE)

REFERENCE 1: 122:215888

L89 ANSWER 40 OF 155 REGISTRY COPYRIGHT 2002 ACS

RN 160098-09-9 REGISTRY

CN 2,5-Furandione, polymer with dihydro-2,5-furandione and oxirane (9CI) (CA INDEX NAME)

OTHER CA INDEX NAMES:

CN 2,5-Furandione, dihydro-, polymer with 2,5-furandione and oxirane (9CI)

CN Oxirane, polymer with dihydro-2,5-furandione and 2,5-furandione (9CI)

OTHER NAMES:

CN Ethylene oxide-maleic anhydride-succinic anhydride copolymer

MF (C4 H4 O3 . C4 H2 O3 . C2 H4 O)x

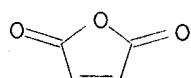
CI PMS

PCT Polyester, Polyester formed, Polyether, Polyether formed, Polyvinyl

SR CA

LC STN Files: CA, CAPLUS

CM 1

CRN 108-31-6
CMF C4 H2 O3

CM 2

CRN 108-30-5
CMF C4 H4 O3



CM 3

CRN 75-21-8
CMF C2 H4 O1 REFERENCES IN FILE CA (1967 TO DATE)
1 REFERENCES IN FILE CAPLUS (1967 TO DATE)

REFERENCE 1: 122:56741

L89 ANSWER 41 OF 155 REGISTRY COPYRIGHT 2002 ACS
 RN 158908-36-2 REGISTRY
 CN 2-Propenoic acid, 2-methyl-, monoester with 1,2,3-propanetriol, polymer
 with 1-propene (9CI) (CA INDEX NAME)
 OTHER CA INDEX NAMES:
 CN 1-Propene, polymer with 1,2,3-propanetriol mono(2-methyl-2-propenoate)
 (9CI)
 MF (C7 H12 O4 . C3 H6)x
 CI PMS
 PCT Polyacrylic, Polyester, Polyolefin, Polyether
 SR CA
 LC STN Files: CA, CAPLUS

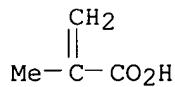
CM 1

CRN 115-07-1
CMF C3 H6H₃C—CH=CH₂

CM 2

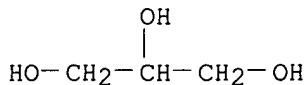
CRN 50853-28-6
CMF C7 H12 O4
CCI IDS

CM 3

CRN 79-41-4
CMF C4 H6 O2

CM 4

CRN 56-81-5
 CMF C3 H8 O3



1 REFERENCES IN FILE CA (1967 TO DATE)
 1 REFERENCES IN FILE CAPLUS (1967 TO DATE)

REFERENCE 1: 121:257540

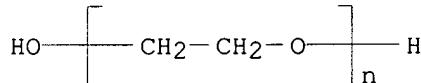
L89 ANSWER 42 OF 155 REGISTRY COPYRIGHT 2002 ACS
 RN 157661-48-8 REGISTRY
 CN 2,5-Furandione, polymer with .alpha.-hydro-.omega.-hydroxypoly(oxy-1,2-ethanediyl) and 2-methyl-1-propene (9CI) (CA INDEX NAME)

OTHER CA INDEX NAMES:

CN 1-Propene, 2-methyl-, polymer with 2,5-furandione and .alpha.-hydro-.omega.-hydroxypoly(oxy-1,2-ethanediyl) (9CI)
 CN Poly(oxy-1,2-ethanediyl), .alpha.-hydro-.omega.-hydroxy-, polymer with 2,5-furandione and 2-methyl-1-propene (9CI)
 MF (C4 H8 . C4 H2 O3 . (C2 H4 O)n H2 O)x
 CI PMS
 PCT Polyester, Polyester formed, Polyether, Polyolefin, Polyvinyl
 SR CA
 LC STN Files: CA, CAPLUS

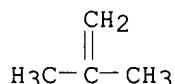
CM 1

CRN 25322-68-3
 CMF (C2 H4 O)n H2 O
 CCI PMS



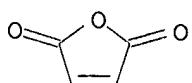
CM 2

CRN 115-11-7
 CMF C4 H8



CM 3

CRN 108-31-6
 CMF C4 H2 O3



1 REFERENCES IN FILE CA (1967 TO DATE)
 1 REFERENCES IN FILE CAPLUS (1967 TO DATE)

REFERENCE 1: 121:158416

L89 ANSWER 43 OF 155 REGISTRY COPYRIGHT 2002 ACS

RN 153853-58-8 REGISTRY

CN 2,5-Furandione, polymer with 4,5-dihydro-2-(1-methylethenyl)oxazole and 2-methyl-1-propene, ammonium salt (9CI). (CA INDEX NAME)

OTHER CA INDEX NAMES:

CN 1-Propene, 2-methyl-, polymer with 4,5-dihydro-2-(1-methylethenyl)oxazole and 2,5-furandione, ammonium salt (9CI)

CN Oxazole, 4,5-dihydro-2-(1-methylethenyl)-, polymer with 2,5-furandione and 2-methyl-1-propene, ammonium salt (9CI)

MF (C₆ H₉ N O . C₄ H₈ . C₄ H₂ O₃)_x . x H₃ N

PCT Polyolefin, Polyvinyl

SR CA

LC STN Files: CA, CAPLUS

CM 1

CRN 153853-57-7

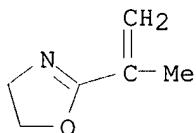
CMF (C₆ H₉ N O . C₄ H₈ . C₄ H₂ O₃)_x

CCI PMS

CM 2

CRN 10471-78-0

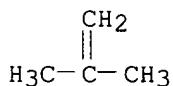
CMF C₆ H₉ N O



CM 3

CRN 115-11-7

CMF C₄ H₈



CM 4

CRN 108-31-6

CMF C₄ H₂ O₃



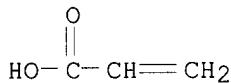
1 REFERENCES IN FILE CA (1967 TO DATE)
 1 REFERENCES IN FILE CAPLUS (1967 TO DATE)

REFERENCE 1: 120:193353

L89 ANSWER 44 OF 155 REGISTRY COPYRIGHT 2002 ACS
 RN 152019-56-2 REGISTRY
 CN 2-Propenoic acid, polymer with ethene and oxirane, block, graft (9CI) (CA INDEX NAME)
 OTHER CA INDEX NAMES:
 CN Ethene, polymer with oxirane and 2-propenoic acid, block, graft (9CI)
 CN Oxirane, polymer with ethene and 2-propenoic acid, block, graft (9CI)
 MF (C3 H4 O2 . C2 H4 O . C2 H4)x
 CI PMS
 PCT Polyacrylic, Polyether, Polyether formed, Polyolefin
 SR CA
 LC STN Files: CA, CAPLUS

CM 1

CRN 79-10-7
 CMF C3 H4 O2



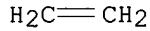
CM 2

CRN 75-21-8
 CMF C2 H4 O



CM 3

CRN 74-85-1
 CMF C2 H4



2 REFERENCES IN FILE CA (1967 TO DATE)
 2 REFERENCES TO NON-SPECIFIC DERIVATIVES IN FILE CA
 2 REFERENCES IN FILE CAPLUS (1967 TO DATE)

REFERENCE 1: 125:11684

REFERENCE 2: 120:31943

L89 ANSWER 45 OF 155 REGISTRY COPYRIGHT 2002 ACS
 RN 151421-06-6 REGISTRY
 CN 2,5-Furandione, polymer with 1,6-hexanediamine and 2-methyl-1-propene,
 sodium salt (9CI) (CA INDEX NAME)
 OTHER CA INDEX NAMES:
 CN 1,6-Hexanediamine, polymer with 2,5-furandione and 2-methyl-1-propene,
 sodium salt (9CI)
 CN 1-Propene, 2-methyl-, polymer with 2,5-furandione and 1,6-hexanediamine,
 sodium salt (9CI)
 MF (C₆ H₁₆ N₂ . C₄ H₈ . C₄ H₂ O₃)_x . x Na
 PCT Polyamide, Polyamide formed, Polyamine, Polyamine formed, Polyolefin,
 Polyvinyl
 SR CA
 LC STN Files: CA, CAPLUS

CM 1

CRN 151421-05-5
 CMF (C₆ H₁₆ N₂ . C₄ H₈ . C₄ H₂ O₃)_x
 CCI PMS

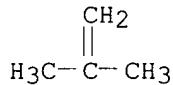
CM 2

CRN 124-09-4
 CMF C₆ H₁₆ N₂

H₂N-(CH₂)₆-NH₂

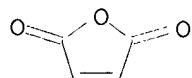
CM 3

CRN 115-11-7
 CMF C₄ H₈



CM 4

CRN 108-31-6
 CMF C₄ H₂ O₃



1 REFERENCES IN FILE CA (1967 TO DATE)
 1 REFERENCES IN FILE CAPLUS (1967 TO DATE)

REFERENCE 1: 119:272033

L89 ANSWER 46 OF 155 REGISTRY COPYRIGHT 2002 ACS
 RN 147545-70-8 REGISTRY
 CN 2-Propenoic acid, 2-methyl-, polymer with ethene, ester with
 .alpha.-hydro-.omega.-hydroxypoly(oxy-1,2-ethanediyl) (9CI) (CA INDEX

NAME)

OTHER CA INDEX NAMES:

CN Ethene, polymer with 2-methyl-2-propenoic acid, ester with .alpha.-hydro-.omega.-hydroxypoly(oxy-1,2-ethanediyl) (9CI)

MF (C₄ H₆ O₂ . C₂ H₄)_x . x (C₂ H₄ O)_n H₂ O

PCT Polyacrylic, Polyether, Polyolefin

SR CA

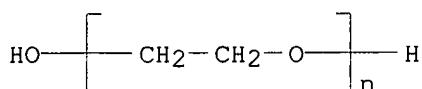
LC STN Files: CA, CAPLUS

CM 1

CRN 25322-68-3

CMF (C₂ H₄ O)_n H₂ O

CCI PMS



CM 2

CRN 25053-53-6

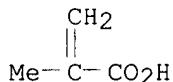
CMF (C₄ H₆ O₂ . C₂ H₄)_x

CCI PMS

CM 3

CRN 79-41-4

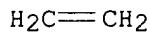
CMF C₄ H₆ O₂



CM 4

CRN 74-85-1

CMF C₂ H₄



1 REFERENCES IN FILE CA (1967 TO DATE)

1 REFERENCES TO NON-SPECIFIC DERIVATIVES IN FILE CA

1 REFERENCES IN FILE CAPLUS (1967 TO DATE)

REFERENCE 1: 118:214102

L89 ANSWER 47 OF 155 REGISTRY COPYRIGHT 2002 ACS

RN 142708-63-2 REGISTRY

CN Poly(oxy-1,2-ethanediyl), .alpha.-hydro-.omega.-hydroxy-, 2-methyl-2-propenoate, polymer with ethene (9CI) (CA INDEX NAME)

OTHER CA INDEX NAMES:

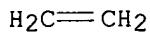
CN Ethene, polymer with .alpha.-hydro-.omega.-hydroxy[poly(oxy-1,2-ethanediyl)] 2-methyl-2-propenoate (9CI)

MF (C₄ H₆ O₂ . x (C₂ H₄ O)_n H₂ O . C₂ H₄)_x

CI PMS
 PCT Polyacrylic, Polyether, Polyolefin
 SR CA
 LC STN Files: CA, CAPLUS

CM 1

CRN 74-85-1
 CMF C2 H4

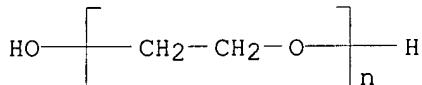


CM 2

CRN 9056-77-3
 CMF C4 H6 O2 . x (C2 H4 O)n H2 O

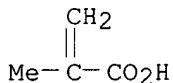
CM 3

CRN 25322-68-3
 CMF (C2 H4 O)n H2 O
 CCI PMS



CM 4

CRN 79-41-4
 CMF C4 H6 O2



2 REFERENCES IN FILE CA (1967 TO DATE)
 2 REFERENCES IN FILE CAPLUS (1967 TO DATE)

REFERENCE 1: 117:71587

REFERENCE 2: 117:71586

L89 ANSWER 48 OF 155 REGISTRY COPYRIGHT 2002 ACS
 RN 142277-89-2 REGISTRY
 CN 2,5-Furandione, polymer with 2-methyl-1-propene, titanium salt (9CI) (CA INDEX NAME)

OTHER CA INDEX NAMES:

CN 1-Propene, 2-methyl-, polymer with 2,5-furandione, titanium salt (9CI)

OTHER NAMES:

CN Isobutylene-maleic anhydride copolymer titanium salt

MF (C4 H8 . C4 H2 O3)x . x Ti

PCT Polyolefin, Polyvinyl

SR CA

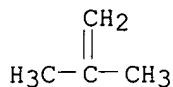
LC STN Files: CA, CAPLUS

CM 1

CRN 26426-80-2
 CMF (C₄ H₈ . C₄ H₂ O₃)_x
 CCI PMS

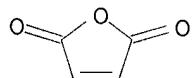
CM 2

CRN 115-11-7
 CMF C₄ H₈



CM 3

CRN 108-31-6
 CMF C₄ H₂ O₃



1 REFERENCES IN FILE CA (1967 TO DATE)
 1 REFERENCES IN FILE CAPLUS (1967 TO DATE)

REFERENCE 1: 117:27472

L89 ANSWER 49 OF 155 REGISTRY COPYRIGHT 2002 ACS
 RN 142277-88-1 REGISTRY
 CN 2,5-Furandione, polymer with 2-methyl-1-propene, copper salt (9CI) (CA INDEX NAME)

OTHER CA INDEX NAMES:

CN 1-Propene, 2-methyl-, polymer with 2,5-furandione, copper salt (9CI)

OTHER NAMES:

CN Isobutylene-maleic anhydride copolymer copper salt

MF (C₄ H₈ . C₄ H₂ O₃)_x . x Cu

PCT Polyolefin, Polyvinyl

SR CA

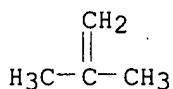
LC STN Files: CA, CAPLUS

CM 1

CRN 26426-80-2
 CMF (C₄ H₈ . C₄ H₂ O₃)_x
 CCI PMS

CM 2

CRN 115-11-7
 CMF C₄ H₈



CM 3

CRN 108-31-6
CMF C4 H2 O3



2 REFERENCES IN FILE CA (1967 TO DATE)
2 REFERENCES IN FILE CAPLUS (1967 TO DATE)

REFERENCE 1: 119:3322

REFERENCE 2: 117:27472

L89 ANSWER 50 OF 155 REGISTRY COPYRIGHT 2002 ACS

RN 141239-96-5 REGISTRY

2,5-Furandione, polymer with 2-methyl-1-propene and .alpha.-
(oxiranylmethyl)-.omega.- (oxiranylmethoxy)poly(oxy-1,2-ethanediyl), sodium
salt (9CI) (CA INDEX NAME)

OTHER CA INDEX NAMES:

CN 1-Propene, 2-methyl-, polymer with 2,5-furandione and .alpha.-
(oxiranylmethyl)-.omega.- (oxiranylmethoxy)poly(oxy-1,2-ethanediyl), sodium
salt (9CI)

CN Poly(oxy-1,2-ethanediyl), .alpha.- (oxiranylmethyl)-.omega.- (oxiranylmethoxy)-, polymer with 2,5-furandione and 2-methyl-1-propene, sodium salt (9CI)

MF (C₄ H₈ . C₄ H₂ O₃ . (C₂ H₄ O)_n C₆ H₁₀ O₃)_x . x Na

PCT Epoxy resin, Polyester, Polyester formed, Polyether, Polyolefin, Polyvinyl

SR CA

LC STN Files: CA, CAPLUS

CM 1

CRN 113095-69-5

CMF (C₄ H₈ . C₄ H₂ O₃ . (C₂ H₄ O)_n C₆ H₁₀ O₃)_x

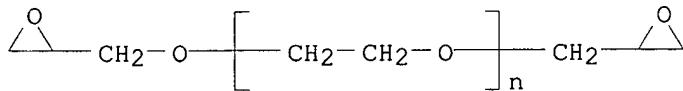
CCI PMS

CM 2

CRN 26403-72-5

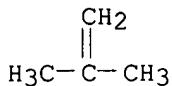
CMF (C₂ H₄ O)_n C₆ H₁₀ O₃

CCI PMS



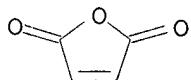
CM 3

CRN 115-11-7
 CMF C4 H8



CM 4

CRN 108-31-6
 CMF C4 H2 O3



2 REFERENCES IN FILE CA (1967 TO DATE)
 2 REFERENCES IN FILE CAPLUS (1967 TO DATE)

REFERENCE 1: 123:11767

REFERENCE 2: 116:216280

L89 ANSWER 51 OF 155 REGISTRY COPYRIGHT 2002 ACS
 RN 141105-38-6 REGISTRY
 CN 2,5-Furandione, polymer with ethenol and 2-methyl-1-propene, sodium salt
 (9CI) (CA INDEX NAME)
 OTHER CA INDEX NAMES:
 CN 1-Propene, 2-methyl-, polymer with ethenol and 2,5-furandione, sodium salt
 (9CI)
 CN Ethenol, polymer with 2,5-furandione and 2-methyl-1-propene, sodium salt
 (9CI)
 MF (C4 H8 . C4 H2 O3 . C2 H4 O)x . x Na
 PCT Polyolefin, Polyvinyl
 SR CA
 LC STN Files: CA, CAPLUS

CM 1

CRN 52641-05-1
 CMF (C4 H8 . C4 H2 O3 . C2 H4 O)x
 CCI PMS

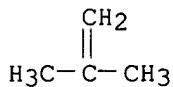
CM 2

CRN 557-75-5
 CMF C2 H4 O

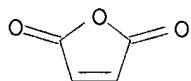


CM 3

CRN 115-11-7
 CMF C4 H8



CM 4

CRN 108-31-6
CMF C4 H2 O32 REFERENCES IN FILE CA (1967 TO DATE)
2 REFERENCES IN FILE CAPLUS (1967 TO DATE)

REFERENCE 1: 136:249099

REFERENCE 2: 116:216280

L89 ANSWER 52 OF 155 REGISTRY COPYRIGHT 2002 ACS

RN 140219-11-0 REGISTRY

CN 2,5-Furandione, polymer with 2-methyl-1-propene, zinc salt (9CI) (CA INDEX NAME)

OTHER CA INDEX NAMES:

CN 1-Propene, 2-methyl-, polymer with 2,5-furandione, zinc salt (9CI)

OTHER NAMES:

CN Isobutylene-maleic anhydride copolymer zinc salt

MF (C4 H8 . C4 H2 O3)x . x Zn

PCT Polyolefin, Polyvinyl

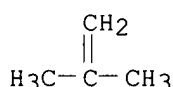
SR CA

LC STN Files: CA, CAPLUS

CM 1

CRN 26426-80-2
CMF (C4 H8 . C4 H2 O3)x
CCI PMS

CM 2

CRN 115-11-7
CMF C4 H8

CM 3

CRN 108-31-6
CMF C4 H2 O3



5 REFERENCES IN FILE CA (1967 TO DATE)
 5 REFERENCES IN FILE CAPLUS (1967 TO DATE)

REFERENCE 1: 119:33222

REFERENCE 2: 118:65639

REFERENCE 3: 117:136520

REFERENCE 4: 117:27472

REFERENCE 5: 116:179855

L89 ANSWER 53 OF 155 REGISTRY COPYRIGHT 2002 ACS

RN 137763-54-3 REGISTRY

CN 2,5-Furandione, polymer with aziridine and 2-methyl-1-propene, sodium salt
 (9CI) (CA INDEX NAME)

OTHER CA INDEX NAMES:

CN 1-Propene, 2-methyl-, polymer with aziridine and 2,5-furandione, sodium salt (9CI)

CN Aziridine, polymer with 2,5-furandione and 2-methyl-1-propene, sodium salt (9CI)

MF (C4 H8 . C4 H2 O3 . C2 H5 N)x . x Na

PCT Polyamine, Polyamine formed, Polyolefin, Polyvinyl

SR CA

LC STN Files: CA, CAPLUS

CM 1

CRN 57649-62-4

CMF (C4 H8 . C4 H2 O3 . C2 H5 N)x

CCI PMS

CM 2

CRN 151-56-4

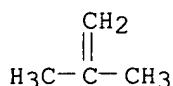
CMF C2 H5 N



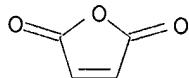
CM 3

CRN 115-11-7

CMF C4 H8



CM 4

CRN 108-31-6
CMF C4 H2 O34 REFERENCES IN FILE CA (1967 TO DATE)
4 REFERENCES IN FILE CAPLUS (1967 TO DATE)

REFERENCE 1: 127:136848

REFERENCE 2: 119:119695

REFERENCE 3: 118:149541

REFERENCE 4: 115:281573

L89 ANSWER 54 OF 155 REGISTRY COPYRIGHT 2002 ACS

RN 137692-27-4 REGISTRY

CN 2-Butenedioic acid (2Z)-, ammonium salt, polymer with 2-methyl-1-propene
(9CI) (CA INDEX NAME)

OTHER CA INDEX NAMES:

CN 1-Propene, 2-methyl-, polymer with (Z)-ammonium 2-butenedioate (9CI)

CN 2-Butenedioic acid (Z)-, ammonium salt, polymer with 2-methyl-1-propene

FS STEREOSEARCH

MF (C4 H8 . C4 H4 O4 . x H3 N)x

CI PMS

PCT Polyolefin, Polyvinyl

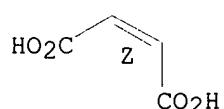
SR CA

LC STN Files: CA, CAPLUS

CM 1

CRN 13716-99-9 (110-16-7)
CMF C4 H4 O4 . x H3 N

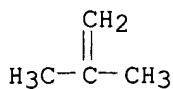
Double bond geometry as shown.



● x NH3

CM 2

CRN 115-11-7
CMF C4 H8



1 REFERENCES IN FILE CA (1967 TO DATE)
 1 REFERENCES IN FILE CAPLUS (1967 TO DATE)

REFERENCE 1: 115:282276

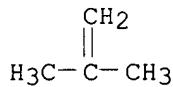
L89 ANSWER 55 OF 155 REGISTRY COPYRIGHT 2002 ACS
 RN 137414-12-1 REGISTRY
 CN 2,5-Furandione, polymer with 1-amino-2-propanol and 2-methyl-1-propene,
 sodium salt (9CI) (CA INDEX NAME)
 OTHER CA INDEX NAMES:
 CN 1-Propene, 2-methyl-, polymer with (.-.)-1-amino-2-propanol and
 2,5-furandione, sodium salt
 CN 1-Propene, 2-methyl-, polymer with 1-amino-2-propanol and 2,5-furandione,
 sodium salt (9CI).
 CN 2,5-Furandione, polymer with (.-.)-1-amino-2-propanol and
 2-methyl-1-propene, sodium salt
 CN 2-Propanol, 1-amino-, (.-.), polymer with 2,5-furandione and
 2-methyl-1-propene, sodium salt
 CN 2-Propanol, 1-amino-, polymer with 2,5-furandione and 2-methyl-1-propene,
 sodium salt (9CI)
 MF (C4 H8 . C4 H2 O3 . C3 H9 N O)x . x Na
 PCT Polyolefin, Polyether, Polyvinyl
 SR CA
 LC STN Files: CA, CAPLUS, USPATFULL

CM 1

CRN 137414-11-0
 CMF (C4 H8 . C4 H2 O3 . C3 H9 N O)x
 CCI PMS

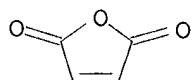
CM 2

CRN 115-11-7
 CMF C4 H8



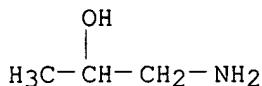
CM 3

CRN 108-31-6
 CMF C4 H2 O3



CM 4

CRN 78-96-6
 CMF C3 H9 N O



1 REFERENCES IN FILE CA (1967 TO DATE)
 1 REFERENCES IN FILE CAPLUS (1967 TO DATE)

REFERENCE 1: 115:258180

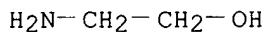
L89 ANSWER 56 OF 155 REGISTRY COPYRIGHT 2002 ACS
 RN 137414-10-9 REGISTRY
 CN 2,5-Furandione, polymer with 2-aminoethanol and 2-methyl-1-propene, sodium salt (9CI) (CA INDEX NAME)
 OTHER CA INDEX NAMES:
 CN 1-Propene, 2-methyl-, polymer with 2-aminoethanol and 2,5-furandione, sodium salt (9CI)
 CN Ethanol, 2-amino-, polymer with 2,5-furandione and 2-methyl-1-propene, sodium salt (9CI)
 MF (C4 H8 . C4 H2 O3 . C2 H7 N O)x . x Na
 PCT Polyolefin, Polyether, Polyvinyl
 SR CA
 LC STN Files: CA, CAPLUS, USPATFULL

CM 1

CRN 137414-09-6
 CMF (C4 H8 . C4 H2 O3 . C2 H7 N O)x
 CCI PMS

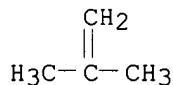
CM 2

CRN 141-43-5
 CMF C2 H7 N O



CM 3

CRN 115-11-7
 CMF C4 H8



CM 4

CRN 108-31-6
 CMF C4 H2 O3



1 REFERENCES IN FILE CA (1967 TO DATE)
 1 REFERENCES IN FILE CAPLUS (1967 TO DATE)

REFERENCE 1: 115:258180

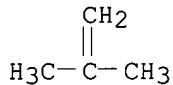
L89 ANSWER 57 OF 155 REGISTRY COPYRIGHT 2002 ACS
 RN 137414-08-5 REGISTRY
 CN 2,5-Furandione, polymer with 2-amino-2-(hydroxymethyl)-1,3-propanediol and
 2-methyl-1-propene, sodium salt (9CI) (CA INDEX NAME)
 OTHER CA INDEX NAMES:
 CN 1,3-Propanediol, 2-amino-2-(hydroxymethyl)-, polymer with 2,5-furandione
 and 2-methyl-1-propene, sodium salt (9CI)
 CN 1-Propene, 2-methyl-, polymer with 2-amino-2-(hydroxymethyl)-1,3-
 propanediol and 2,5-furandione, sodium salt (9CI)
 MF (C4 H11 N O3 . C4 H8 . C4 H2 O3)x . x Na
 PCT Polyester, Polyester formed, Polyolefin, Polyvinyl
 SR CA
 LC STN Files: CA, CAPLUS, USPATFULL

CM 1

CRN 137414-07-4
 CMF (C4 H11 N O3 . C4 H8 . C4 H2 O3)x
 CCI PMS

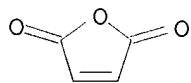
CM 2

CRN 115-11-7
 CMF C4 H8



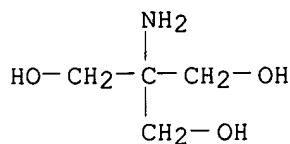
CM 3

CRN 108-31-6
 CMF C4 H2 O3



CM 4

CRN 77-86-1
 CMF C4 H11 N O3



1 REFERENCES IN FILE CA (1967 TO DATE)
 1 REFERENCES IN FILE CAPLUS (1967 TO DATE)

REFERENCE 1: 115:258180

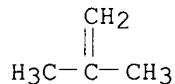
L89 ANSWER 58 OF 155 REGISTRY COPYRIGHT 2002 ACS
 RN 136596-85-5 REGISTRY
 CN 2,5-Furandione, polymer with 2-methyl-1-propene, sodium zinc salt (9CI)
 (CA INDEX NAME)
 OTHER CA INDEX NAMES:
 CN 1-Propene, 2-methyl-, polymer with 2,5-furandione, sodium zinc salt (9CI)
 MF (C4 H8 . C4 H2 O3)x . x Na . x Zn
 PCT Polyolefin, Polyvinyl
 SR CA
 LC STN Files: CA, CAPLUS

CM 1

CRN 26426-80-2
 CMF (C4 H8 . C4 H2 O3)x
 CCI PMS

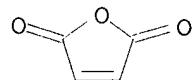
CM 2

CRN 115-11-7
 CMF C4 H8



CM 3

CRN 108-31-6
 CMF C4 H2 O3



1 REFERENCES IN FILE CA (1967 TO DATE)
 1 REFERENCES IN FILE CAPLUS (1967 TO DATE)

REFERENCE 1: 115:188778

L89 ANSWER 59 OF 155 REGISTRY COPYRIGHT 2002 ACS
 RN 136575-62-7 REGISTRY
 CN 2,5-Furandione, polymer with 2-methyl-1-propene, nickel(2+) sodium salt
 (9CI) (CA INDEX NAME)
 OTHER CA INDEX NAMES:

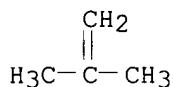
CN 1-Propene, 2-methyl-, polymer with 2,5-furandione, nickel(2+) sodium salt
 (9CI)
 MF (C4 H8 . C4 H2 O3)x . x Na . x Ni
 PCT Polyolefin, Polyvinyl
 SR CA
 LC STN Files: CA, CAPLUS

CM 1

CRN 26426-80-2
 CMF (C4 H8 . C4 H2 O3)x
 CCI PMS

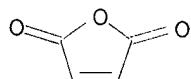
CM 2

CRN 115-11-7
 CMF C4 H8



CM 3

CRN 108-31-6
 CMF C4 H2 O3



1 REFERENCES IN FILE CA (1967 TO DATE)
 1 REFERENCES IN FILE CAPLUS (1967 TO DATE)

REFERENCE 1: 115:188778

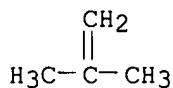
L89 ANSWER 60 OF 155 REGISTRY COPYRIGHT 2002 ACS
 RN 136575-61-6 REGISTRY
 CN 2,5-Furandione, polymer with 2-methyl-1-propene, magnesium sodium salt
 (9CI) (CA INDEX NAME)
 OTHER CA INDEX NAMES:
 CN 1-Propene, 2-methyl-, polymer with 2,5-furandione, magnesium sodium salt
 (9CI)
 MF (C4 H8 . C4 H2 O3)x . x Mg . x Na
 PCT Polyolefin, Polyvinyl
 SR CA
 LC STN Files: CA, CAPLUS

CM 1

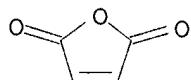
CRN 26426-80-2
 CMF (C4 H8 . C4 H2 O3)x
 CCI PMS

CM 2

CRN 115-11-7
 CMF C4 H8



CM 3

CRN 108-31-6
CMF C4 H2 O31 REFERENCES IN FILE CA (1967 TO DATE)
1 REFERENCES IN FILE CPLUS (1967 TO DATE)

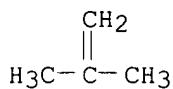
REFERENCE 1: 115:188778

L89 ANSWER 61 OF 155 REGISTRY COPYRIGHT 2002 ACS
 RN 136575-60-5 REGISTRY
 CN 2,5-Furandione, polymer with 2-methyl-1-propene, iron(2+) sodium salt
 (9CI) (CA INDEX NAME)
 OTHER CA INDEX NAMES:
 CN 1-Propene, 2-methyl-, polymer with 2,5-furandione, iron(2+) sodium salt
 (9CI)
 MF (C4 H8 . C4 H2 O3)x . x Fe . x Na
 PCT Polyolefin, Polyvinyl
 SR CA
 LC STN Files: CA, CPLUS

CM 1

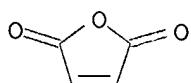
CRN 26426-80-2
CMF (C4 H8 . C4 H2 O3)x
CCI PMS

CM 2

CRN 115-11-7
CMF C4 H8

CM 3

CRN 108-31-6
CMF C4 H2 O3



1 REFERENCES IN FILE CA (1967 TO DATE)
 1 REFERENCES IN FILE CAPLUS (1967 TO DATE)

REFERENCE 1: 115:188778

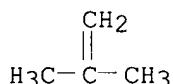
L89 ANSWER 62 OF 155 REGISTRY COPYRIGHT 2002 ACS
 RN 136575-59-2 REGISTRY
 CN 2,5-Furandione, polymer with 2-methyl-1-propene, aluminum sodium salt
 (9CI) (CA INDEX NAME)
 OTHER CA INDEX NAMES:
 CN 1-Propene, 2-methyl-, polymer with 2,5-furandione, aluminum sodium salt
 (9CI)
 MF (C4 H8 . C4 H2 O3)x . x Al . x Na
 PCT Polyolefin, Polyvinyl
 SR CA
 LC STN Files: CA, CAPLUS

CM 1

CRN 26426-80-2
 CMF (C4 H8 . C4 H2 O3)x
 CCI PMS

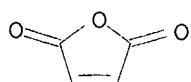
CM 2

CRN 115-11-7
 CMF C4 H8



CM 3

CRN 108-31-6
 CMF C4 H2 O3



1 REFERENCES IN FILE CA (1967 TO DATE)
 1 REFERENCES IN FILE CAPLUS (1967 TO DATE)

REFERENCE 1: 115:188778

L89 ANSWER 63 OF 155 REGISTRY COPYRIGHT 2002 ACS
 RN 136575-58-1 REGISTRY
 CN 2,5-Furandione, polymer with 2-methyl-1-propene, aluminum salt (9CI) (CA
 INDEX NAME)
 OTHER CA INDEX NAMES:
 CN 1-Propene, 2-methyl-, polymer with 2,5-furandione, aluminum salt (9CI)

OTHER NAMES:

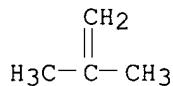
CN Isobutene-maleic anhydride copolymer aluminum salt
 CN Isobutylene-maleic anhydride copolymer aluminum salt
 MF (C₄ H₈ . C₄ H₂ O₃)_x . x Al
 PCT Polyolefin, Polyvinyl
 SR CA
 LC STN Files: CA, CAPLUS

CM 1

CRN 26426-80-2
 CMF (C₄ H₈ . C₄ H₂ O₃)_x
 CCI PMS

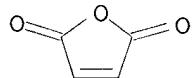
CM 2

CRN 115-11-7
 CMF C₄ H₈



CM 3

CRN 108-31-6
 CMF C₄ H₂ O₃



4 REFERENCES IN FILE CA (1967 TO DATE)
 4 REFERENCES IN FILE CAPLUS (1967 TO DATE)

REFERENCE 1: 137:110635

REFERENCE 2: 137:34602

REFERENCE 3: 117:27472

REFERENCE 4: 115:188778

L89 ANSWER 64 OF 155 REGISTRY COPYRIGHT 2002 ACS

RN 135639-46-2 REGISTRY

CN 2-Butenedioic acid (2Z)-, polymer with 2-methyl-1-propene, alternating (9CI) (CA INDEX NAME)

OTHER CA INDEX NAMES:

CN 1-Propene, 2-methyl-, polymer with (2Z)-2-butenedioic acid, alternating (9CI)

CN 1-Propene, 2-methyl-, polymer with (Z)-2-butenedioic acid, alternating

CN 2-Butenedioic acid (Z)-, polymer with 2-methyl-1-propene, alternating

FS STEREOSEARCH

MF (C₄ H₈ . C₄ H₄ O₄)_x

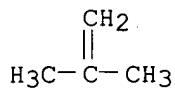
CI PMS

PCT Polyolefin, Polyvinyl

SR CA

LC STN Files: CA, CAPLUS

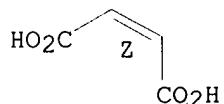
CM 1

CRN 115-11-7
CMF C4 H8

CM 2

CRN 110-16-7
CMF C4 H4 O4

Double bond geometry as shown.

2 REFERENCES IN FILE CA (1967 TO DATE)
2 REFERENCES IN FILE CAPLUS (1967 TO DATE)

REFERENCE 1: 115:233396

REFERENCE 2: 115:208958

L89 ANSWER 65 OF 155 REGISTRY COPYRIGHT 2002 ACS

RN 134437-81-3 REGISTRY

CN 1H-Pyrrole-2,5-dione, 1-dodecyl-, polymer with 2,5-furandione and
2-methyl-1-propene, sodium salt (9CI) (CA INDEX NAME)

OTHER CA INDEX NAMES:

CN 1-Propene, 2-methyl-, polymer with 1-dodecyl-1H-pyrrole-2,5-dione and
2,5-furandione, sodium salt (9CI)CN 2,5-Furandione, polymer with 1-dodecyl-1H-pyrrole-2,5-dione and
2-methyl-1-propene, sodium salt (9CI)

MF (C16 H27 N O2 . C4 H8 . C4 H2 O3)x . x Na

PCT Polyolefin, Polyvinyl

SR CA

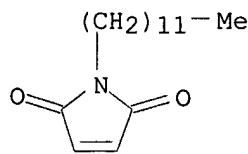
LC STN Files: CA, CAPLUS

CM 1

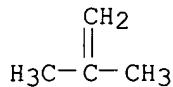
CRN 134437-80-2
CMF (C16 H27 N O2 . C4 H8 . C4 H2 O3)x
CCI PMS

CM 2

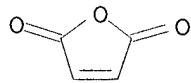
CRN 17616-03-4
CMF C16 H27 N O2



CM 3

CRN 115-11-7
CMF C4 H8

CM 4

CRN 108-31-6
CMF C4 H2 O31 REFERENCES IN FILE CA (1967 TO DATE)
1 REFERENCES IN FILE CAPLUS (1967 TO DATE)

REFERENCE 1: 115:11311

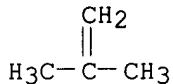
L89 ANSWER 66 OF 155 REGISTRY COPYRIGHT 2002 ACS
 RN 127864-52-2 REGISTRY
 CN 2-Butenedioic acid, monoammonium salt, polymer with 2-methyl-1-propene
 (9CI) (CA INDEX NAME)
 OTHER CA INDEX NAMES:
 CN 1-Propene, 2-methyl-, polymer with ammonium hydrogen 2-butenedioate (9CI)
 MF (C4 H8 . C4 H4 O4 . H3 N)x
 CI PMS
 PCT Polyolefin, Polyvinyl
 SR CA
 LC STN Files: CA, CAPLUS

CM 1

CRN 1509-68-8 (6915-18-0)
CMF C4 H4 O4 . H3 N

NH3

CM 2

CRN 115-11-7
CMF C4 H81 REFERENCES IN FILE CA (1967 TO DATE)
1 REFERENCES IN FILE CAPLUS (1967 TO DATE)

REFERENCE 1: 113:31788

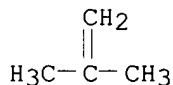
L89 ANSWER 67 OF 155 REGISTRY COPYRIGHT 2002 ACS
 RN 127864-51-1 REGISTRY
 CN 2-Butenedioic acid, monopotassium salt, polymer with 2-methyl-1-propene
 (9CI) (CA INDEX NAME)
 OTHER CA INDEX NAMES:
 CN 1-Propene, 2-methyl-, polymer with potassium hydrogen 2-butenedioate (9CI)
 MF (C4 H8 . C4 H4 O4 . K)x
 CI PMS
 PCT Polyolefin, Polyvinyl
 SR CA
 LC STN Files: CA, CAPLUS

CM 1

CRN 116549-86-1 (6915-18-0)
CMF C4 H4 O4 . K

● K

CM 2

CRN 115-11-7
CMF C4 H81 REFERENCES IN FILE CA (1967 TO DATE)
1 REFERENCES IN FILE CAPLUS (1967 TO DATE)

REFERENCE 1: 113:31788

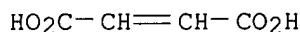
L89 ANSWER 68 OF 155 REGISTRY COPYRIGHT 2002 ACS
 RN 127864-27-1 REGISTRY
 CN 2-Butenedioic acid, monolithium salt, polymer with 2-methyl-1-propene
 (9CI) (CA INDEX NAME)

OTHER CA INDEX NAMES:

CN 1-Propene, 2-methyl-, polymer with lithium hydrogen 2-butenedioate (9CI)
 MF (C4 H8 . C4 H4 O4 . Li)x
 CI PMS
 PCT Polyolefin, Polyvinyl
 SR CA
 LC STN Files: CA, CAPLUS

CM 1

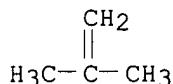
CRN 127864-26-0 (6915-18-0)
 CMF C4 H4 O4 . Li



● Li

CM 2

CRN 115-11-7
 CMF C4 H8



1 REFERENCES IN FILE CA (1967 TO DATE)
 1 REFERENCES IN FILE CAPLUS (1967 TO DATE)

REFERENCE 1: 113:31788

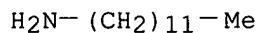
L89 ANSWER 69 OF 155 REGISTRY COPYRIGHT 2002 ACS
 RN 127176-79-8 REGISTRY
 CN 2,5-Furandione, polymer with 2-methyl-1-propene, sodium salt, compd. with
 1-dodecanamine (9CI) (CA INDEX NAME)

OTHER CA INDEX NAMES:

CN 1-Dodecanamine, sodium salt, compd. with 2,5-furandione polymer with
 2-methyl-1-propene (9CI)
 CN 1-Propene, 2-methyl-, polymer with 2,5-furandione, sodium salt, compd.
 with 1-dodecanamine (9CI)
 MF C12 H27 N . x (C4 H8 . C4 H2 O3)x . x Na
 PCT Polyolefin, Polyvinyl
 SR CA

CM 1

CRN 124-22-1
 CMF C12 H27 N

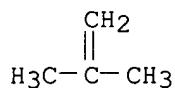


CM 2

CRN 26426-80-2
 CMF (C4 H8 . C4 H2 O3)x
 CCI PMS

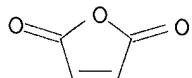
CM 3

CRN 115-11-7
 CMF C4 H8



CM 4

CRN 108-31-6
 CMF C4 H2 O3



L89 ANSWER 70 OF 155 REGISTRY COPYRIGHT 2002 ACS

RN 127176-76-5 REGISTRY

CN 2,5-Furandione, polymer with 2-methyl-1-propene, sodium salt, compd. with N,N-dimethyl-1-dodecanamine (9CI) (CA INDEX NAME)

OTHER CA INDEX NAMES:

CN 1-Dodecanamine, N,N-dimethyl-, sodium salt, compd. with 2,5-furandione polymer with 2-methyl-1-propene (9CI)

CN 1-Propene, 2-methyl-, polymer with 2,5-furandione, sodium salt, compd. with N,N-dimethyl-1-dodecanamine (9CI)

MF C14 H31 N . x (C4 H8 . C4 H2 O3)x . x Na

PCT Polyolefin, Polyvinyl

SR CA

CM 1

CRN 112-18-5
 CMF C14 H31 N

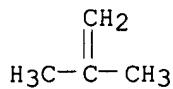
Me₂N-(CH₂)₁₁-Me

CM 2

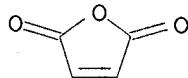
CRN 26426-80-2
 CMF (C4 H8 . C4 H2 O3)x
 CCI PMS

CM 3

CRN 115-11-7
 CMF C4 H8



CM 4

CRN 108-31-6
CMF C4 H2 O3

L89 ANSWER 71 OF 155 REGISTRY COPYRIGHT 2002 ACS

RN 127176-75-4 REGISTRY

CN 2,5-Furandione, polymer with 2-methyl-1-propene, sodium salt, compd. with N-octadecyl-1-octadecanamine (9CI) (CA INDEX NAME)

OTHER CA INDEX NAMES:

CN 1-Octadecanamine, N-octadecyl-, sodium salt, compd. with 2,5-furandione polymer with 2-methyl-1-propene (9CI)

CN 1-Propene, 2-methyl-, polymer with 2,5-furandione, sodium salt, compd. with N-octadecyl-1-octadecanamine (9CI)

MF C36 H75 N . x (C4 H8 . C4 H2 O3)x . x Na

PCT Polyolefin, Polyvinyl

SR CA

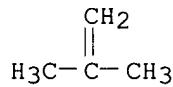
CM 1

CRN 112-99-2
CMF C36 H75 NMe-(CH₂)₁₇-NH-(CH₂)₁₇-Me

CM 2

CRN 26426-80-2
CMF (C4 H8 . C4 H2 O3)x
CCI PMS

CM 3

CRN 115-11-7
CMF C4 H8

CM 4

CRN 108-31-6
CMF C4 H2 O3



L89 ANSWER 72 OF 155 REGISTRY COPYRIGHT 2002 ACS
 RN 127176-74-3 REGISTRY
 CN 2,5-Furandione, polymer with 2-methyl-1-propene, sodium salt, compd. with
 1-octadecanamine (9CI) (CA INDEX NAME)
 OTHER CA INDEX NAMES:
 CN 1-Octadecanamine, sodium salt, compd. with 2,5-furandione polymer with
 2-methyl-1-propene (9CI)
 CN 1-Propene, 2-methyl-, polymer with 2,5-furandione, sodium salt, compd.
 with 1-octadecanamine (9CI)
 MF C18 H39 N . x (C4 H8 . C4 H2 O3)x . x Na
 PCT Polyolefin, Polyvinyl
 SR CA

CM 1

CRN 124-30-1
 CMF C18 H39 N

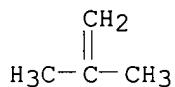
H₂N—(CH₂)₁₇—Me

CM 2

CRN 26426-80-2
 CMF (C₄ H₈ . C₄ H₂ O₃)_x
 CCI PMS

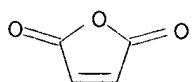
CM 3

CRN 115-11-7
 CMF C₄ H₈



CM 4

CRN 108-31-6
 CMF C₄ H₂ O₃



L89 ANSWER 73 OF 155 REGISTRY COPYRIGHT 2002 ACS
 RN 127176-73-2 REGISTRY

CN 2,5-Furandione, polymer with 2-methyl-1-propene, sodium salt, compd. with N,N-dimethyl-1-octadecanamine (9CI) (CA INDEX NAME)

OTHER CA INDEX NAMES:

CN 1-Octadecanamine, N,N-dimethyl-, sodium salt, compd. with 2,5-furandione polymer with 2-methyl-1-propene (9CI)

CN 1-Propene, 2-methyl-, polymer with 2,5-furandione, sodium salt, compd. with N,N-dimethyl-1-octadecanamine (9CI)

MF C20 H43 N . x (C4 H8 . C4 H2 O3)x . x Na

PCT Polyolefin, Polyvinyl

SR CA

CM 1

CRN 124-28-7

CMF C20 H43 N

Me₂N—(CH₂)₁₇—Me

CM 2

CRN 26426-80-2

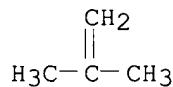
CMF (C4 H8 . C4 H2 O3)x

CCI PMS

CM 3

CRN 115-11-7

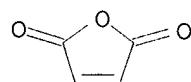
CMF C4 H8



CM 4

CRN 108-31-6

CMF C4 H2 O3



L89 ANSWER 74 OF 155 REGISTRY COPYRIGHT 2002 ACS

RN 127176-72-1 REGISTRY

CN 2,5-Furandione, polymer with 2-methyl-1-propene, sodium salt, compd. with N-methyl-N-octadecyl-1-octadecanamine (9CI) (CA INDEX NAME)

OTHER CA INDEX NAMES:

CN 1-Octadecanamine, N-methyl-N-octadecyl-, sodium salt, compd. with 2,5-furandione polymer with 2-methyl-1-propene (9CI)

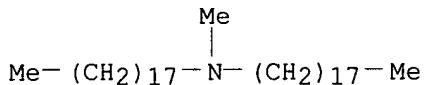
CN 1-Propene, 2-methyl-, polymer with 2,5-furandione, sodium salt, compd. with N-methyl-N-octadecyl-1-octadecanamine (9CI)

MF C37 H77 N . x (C4 H8 . C4 H2 O3)x . x Na

PCT Polyolefin, Polyvinyl

SR CA

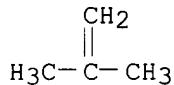
CM 1

CRN 4088-22-6
CMF C37 H77 N

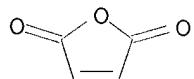
CM 2

CRN 26426-80-2
CMF (C₄ H₈ . C₄ H₂ O₃)_x
CCI PMS

CM 3

CRN 115-11-7
CMF C₄ H₈

CM 4

CRN 108-31-6
CMF C₄ H₂ O₃

L89 ANSWER 75 OF 155 REGISTRY COPYRIGHT 2002 ACS

RN 126692-20-4 REGISTRY

CN Isocyanic acid, polymethylenopolyphenylene ester, polymer with
2,5-furandione and 2-methyl-1-propene, sodium salt (9CI) (CA INDEX NAME)

OTHER CA INDEX NAMES:

CN 1-Propene, 2-methyl-, polymer with 2,5-furandione and
polymethylenopolyphenylene isocyanate, sodium salt (9CI)CN 2,5-Furandione, polymer with 2-methyl-1-propene and
polymethylenopolyphenylene isocyanate, sodium salt (9CI)MF (C₄ H₈ . C₄ H₂ O₃ . Unspecified)x . x NaPCT Manual component, Manual registration, Polycarbodiimide, Polycarbodiimide
formed, Polyisocyanurate, Polyisocyanurate formed, Polyolefin, Polyether,
Polyvinyl

SR CA

LC STN Files: CA, CAPLUS

CM 1

CRN 126692-19-1
CMF (C₄ H₈ . C₄ H₂ O₃ . Unspecified)x

CCI PMS

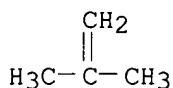
CM 2

CRN 9016-87-9
 CMF Unspecified
 CCI PMS, MAN

*** STRUCTURE DIAGRAM IS NOT AVAILABLE ***

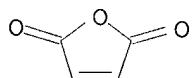
CM 3

CRN 115-11-7
 CMF C4 H8



CM 4

CRN 108-31-6
 CMF C4 H2 O3



1 REFERENCES IN FILE CA (1967 TO DATE)
 1 REFERENCES IN FILE CAPLUS (1967 TO DATE)

REFERENCE 1: 112:180987

L89 ANSWER 76 OF 155 REGISTRY COPYRIGHT 2002 ACS

RN 126338-11-2 REGISTRY

CN 2-Propenoic acid, 2-methyl-, dodecyl ester, polymer with 2,5-furandione and 2-methyl-1-propene, sodium salt (9CI) (CA INDEX NAME)

OTHER CA INDEX NAMES:

CN 1-Propene, 2-methyl-, polymer with dodecyl 2-methyl-2-propenoate and 2,5-furandione, sodium salt (9CI)

CN 2,5-Furandione, polymer with dodecyl 2-methyl-2-propenoate and 2-methyl-1-propene, sodium salt (9CI)

OTHER NAMES:

CN n-Dodecyl methacrylate-isobutylene-maleic anhydride copolymer sodium salt

MF (C16 H30 O2 . C4 H8 . C4 H2 O3)x . x Na

PCT Polyacrylic, Polyolefin, Polyvinyl

SR CA

LC STN Files: CA, CAPLUS

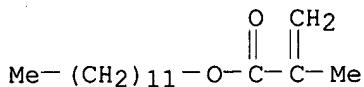
CM 1

CRN 103849-62-3
 CMF (C16 H30 O2 . C4 H8 . C4 H2 O3)x
 CCI PMS

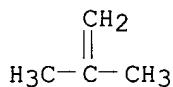
CM 2

CRN 142-90-5

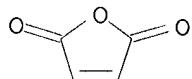
CMF C16 H30 O2



CM 3

CRN 115-11-7
CMF C4 H8

CM 4

CRN 108-31-6
CMF C4 H2 O32 REFERENCES IN FILE CA (1967 TO DATE)
2 REFERENCES IN FILE CAPLUS (1967 TO DATE)

REFERENCE 1: 115:184619

REFERENCE 2: 112:199360

L89 ANSWER 77 OF 155 REGISTRY COPYRIGHT 2002 ACS

RN 126338-10-1 REGISTRY

CN 2-Propenoic acid, 2-methyl-, docosyl ester, polymer with 2,5-furandione and 2-methyl-1-propene, sodium salt (9CI) (CA INDEX NAME)

OTHER CA INDEX NAMES:

CN 1-Propene, 2-methyl-, polymer with docosyl 2-methyl-2-propenoate and 2,5-furandione, sodium salt (9CI)

CN 2,5-Furandione, polymer with docosyl 2-methyl-2-propenoate and 2-methyl-1-propene, sodium salt (9CI)

OTHER NAMES:

CN n-Docosyl methacrylate-isobutylene-maleic anhydride copolymer sodium salt

MF (C26 H50 O2 . C4 H8 . C4 H2 O3)x . x Na

PCT Polyacrylic, Polyolefin, Polyvinyl

SR CA

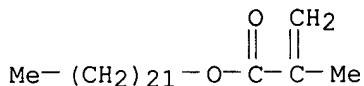
LC STN Files: CA, CAPLUS

CM 1

CRN 103875-04-3
CMF (C26 H50 O2 . C4 H8 . C4 H2 O3)x
CCI PMS

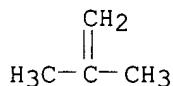
CM 2

CRN 16669-27-5
 CMF C26 H50 O2



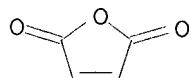
CM 3

CRN 115-11-7
 CMF C4 H8



CM 4

CRN 108-31-6
 CMF C4 H2 O3



2 REFERENCES IN FILE CA (1967 TO DATE)
 2 REFERENCES IN FILE CAPLUS (1967 TO DATE)

REFERENCE 1: 115:184619

REFERENCE 2: 112:199360

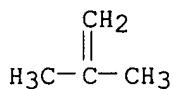
L89 ANSWER 78 OF 155 REGISTRY COPYRIGHT 2002 ACS
 RN 124912-72-7 REGISTRY
 CN 2,5-Furandione, polymer with 2-methyl-1-propene, alternating, sodium salt
 (9CI) (CA INDEX NAME)
 OTHER CA INDEX NAMES:
 CN 1-Propene, 2-methyl-, polymer with 2,5-furandione, alternating, sodium
 salt (9CI)
 MF (C4 H8 . C4 H2 O3)x . x Na
 PCT Polyolefin, Polyvinyl
 SR CA
 LC STN Files: CA, CAPLUS

CM 1

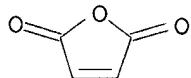
CRN 110171-93-2
 CMF (C4 H8 . C4 H2 O3)x
 CCI PMS

CM 2

CRN 115-11-7
 CMF C4 H8



CM 3

CRN 108-31-6
CMF C4 H2 O33 REFERENCES IN FILE CA (1967 TO DATE)
3 REFERENCES IN FILE CAPLUS (1967 TO DATE)

REFERENCE 1: 131:235811

REFERENCE 2: 124:88367

REFERENCE 3: 112:58896

L89 ANSWER 79 OF 155 REGISTRY COPYRIGHT 2002 ACS

RN 124036-73-3 REGISTRY

CN 2,5-Furandione, polymer with 2,2'-[1,2-ethanediylbis(oxymethylene)]bis[oxirane] and 2-methyl-1-propene, sodium salt (9CI) (CA INDEX NAME)

OTHER CA INDEX NAMES:

CN 1-Propene, 2-methyl-, polymer with 2,2'-[1,2-ethanediylbis(oxymethylene)]bis[oxirane] and 2,5-furandione, sodium salt (9CI)

CN Oxirane, 2,2'-[1,2-ethanediylbis(oxymethylene)]bis-, polymer with 2,5-furandione and 2-methyl-1-propene, sodium salt (9CI)

MF (C8 H14 O4 . C4 H8 . C4 H2 O3)x . x Na

PCT Epoxy resin, Polyester, Polyester formed, Polyether, Polyolefin, Polyvinyl

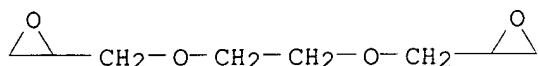
SR CA

LC STN Files: CA, CAPLUS

CM 1

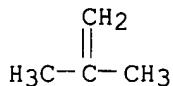
CRN 118825-74-4
CMF (C8 H14 O4 . C4 H8 . C4 H2 O3)x
CCI PMS

CM 2

CRN 2224-15-9
CMF C8 H14 O4

CM 3

CRN 115-11-7
CMF C4 H8



CM 4

CRN 108-31-6
CMF C4 H2 O32 REFERENCES IN FILE CA (1967 TO DATE)
2 REFERENCES IN FILE CAPLUS (1967 TO DATE)

REFERENCE 1: 115:281573

REFERENCE 2: 112:78923

L89 ANSWER 80 OF 155 REGISTRY COPYRIGHT 2002 ACS

RN 123714-12-5 REGISTRY

CN 2-Butenedioic acid (2Z)-, polymer with dodecyl 2-propenoate and
2-methyl-1-propene, sodium salt (9CI) (CA INDEX NAME)

OTHER CA INDEX NAMES:

CN 1-Propene, 2-methyl-, polymer with (2Z)-2-butenedioic acid and dodecyl
2-propenoate, sodium salt (9CI)CN 1-Propene, 2-methyl-, polymer with (Z)-2-butenedioic acid and dodecyl
2-propenoate, sodium saltCN 2-Butenedioic acid (Z)-, polymer with dodecyl 2-propenoate and
2-methyl-1-propene, sodium saltCN 2-Propenoic acid, dodecyl ester, polymer with (2Z)-2-butenedioic acid and
2-methyl-1-propene, sodium salt (9CI)CN 2-Propenoic acid, dodecyl ester, polymer with (Z)-2-butenedioic acid and
2-methyl-1-propene, sodium salt

OTHER NAMES:

CN Dodecyl acrylate-isobutylene-maleic acid copolymer sodium salt

FS STEREOSEARCH

MF (C15 H28 O2 . C4 H8 . C4 H4 O4)x . x Na

PCT Polyacrylic, Polyolefin, Polyvinyl

SR CA

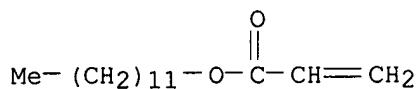
LC STN Files: CA, CAPLUS, USPATFULL

CM 1

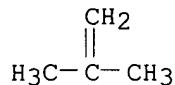
CRN 123714-11-4
CMF (C15 H28 O2 . C4 H8 . C4 H4 O4)x
CCI PMS

CM 2

CRN 2156-97-0
CMF C15 H28 O2



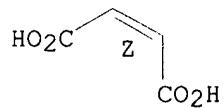
CM 3

CRN 115-11-7
CMF C4 H8

CM 4

CRN 110-16-7
CMF C4 H4 O4

Double bond geometry as shown.

2 REFERENCES IN FILE CA (1967 TO DATE)
2 REFERENCES IN FILE CAPLUS (1967 TO DATE)

REFERENCE 1: 111:235168

REFERENCE 2: 111:216030

L89 ANSWER 81 OF 155 REGISTRY COPYRIGHT 2002 ACS

RN 123714-10-3 REGISTRY

CN 2-Butenedioic acid (2Z)-, polymer with 3-methyl-1-butene and
2-methyl-1-propene, sodium salt (9CI) (CA INDEX NAME)

OTHER CA INDEX NAMES:

CN 1-Butene, 3-methyl-, polymer with (2Z)-2-butenedioic acid and
2-methyl-1-propene, sodium salt (9CI)CN 1-Butene, 3-methyl-, polymer with (Z)-2-butenedioic acid and
2-methyl-1-propene, sodium saltCN 1-Propene, 2-methyl-, polymer with (2Z)-2-butenedioic acid and
3-methyl-1-butene, sodium salt (9CI)CN 1-Propene, 2-methyl-, polymer with (Z)-2-butenedioic acid and
3-methyl-1-butene, sodium saltCN 2-Butenedioic acid (Z)-, polymer with 3-methyl-1-butene and
2-methyl-1-propene, sodium salt

OTHER NAMES:

CN .alpha.-Isoamylene-isobutylene-maleic acid copolymer sodium salt
FS STEREOSEARCH

MF (C5 H10 . C4 H8 . C4 H4 O4)x . x Na

PCT Polyolefin, Polyvinyl

SR CA

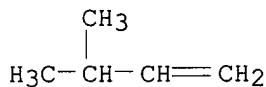
LC STN Files: CA, CAPLUS, USPATFULL

CM 1

CRN 123714-09-0
 CMF (C5 H10 . C4 H8 . C4 H4 O4)x
 CCI PMS

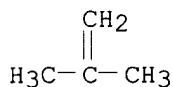
CM 2

CRN 563-45-1
 CMF C5 H10



CM 3

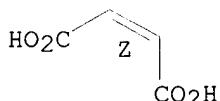
CRN 115-11-7
 CMF C4 H8



CM 4

CRN 110-16-7
 CMF C4 H4 O4

Double bond geometry as shown.



2 REFERENCES IN FILE CA (1967 TO DATE)
 2 REFERENCES IN FILE CAPLUS (1967 TO DATE)

REFERENCE 1: 111:235168

REFERENCE 2: 111:216030

L89 ANSWER 82 OF 155 REGISTRY COPYRIGHT 2002 ACS
 RN 122197-21-1 REGISTRY
 CN 2-Butenedioic acid, polymer with 2-methyl-1-propene (9CI) (CA INDEX NAME)
 OTHER CA INDEX NAMES:
 CN 1-Propene, 2-methyl-, polymer with 2-butenedioic acid (9CI)
 MF (C4 H8 . C4 H4 O4)x
 CI PMS
 PCT Polyolefin, Polyvinyl
 SR CA
 LC STN Files: CA, CAPLUS

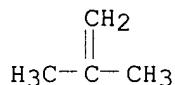
CM 1

CRN 6915-18-0

CMF C4 H4 O4



CM 2

CRN 115-11-7
CMF C4 H82 REFERENCES IN FILE CA (1967 TO DATE)
2 REFERENCES IN FILE CAPLUS (1967 TO DATE)

REFERENCE 1: 116:204363

REFERENCE 2: 111:67800

L89 ANSWER 83 OF 155 REGISTRY COPYRIGHT 2002 ACS

RN 121510-62-1 REGISTRY

CN 2-Propenoic acid, 2-methyl-, dodecyl ester, polymer with 2,5-furandione and 2-methyl-1-propene, ammonium salt (9CI) (CA INDEX NAME)

OTHER CA INDEX NAMES:

CN 1-Propene, 2-methyl-, polymer with dodecyl 2-methyl-2-propenoate and 2,5-furandione, ammonium salt (9CI)

CN 2,5-Furandione, polymer with dodecyl 2-methyl-2-propenoate and 2-methyl-1-propene, ammonium salt (9CI)

MF (C16 H30 O2 . C4 H8 . C4 H2 O3)x . x H3 N

PCT Polyacrylic, Polyolefin, Polyvinyl

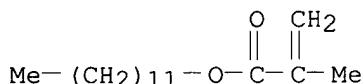
SR CA

LC STN Files: CA, CAPLUS

CM 1

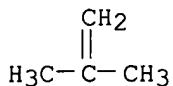
CRN 103849-62-3
CMF (C16 H30 O2 . C4 H8 . C4 H2 O3)x
CCI PMS

CM 2

CRN 142-90-5
CMF C16 H30 O2

CM 3

CRN 115-11-7
CMF C4 H8



CM 4

CRN 108-31-6
CMF C4 H2 O32 REFERENCES IN FILE CA (1967 TO DATE)
2 REFERENCES IN FILE CAPLUS (1967 TO DATE)

REFERENCE 1: 115:184619

REFERENCE 2: 111:41918

L89 ANSWER 84 OF 155 REGISTRY COPYRIGHT 2002 ACS

RN 121367-79-1 REGISTRY

CN 2-Butenedioic acid, monosodium salt, polymer with 2-methyl-1-propene (9CI)
(CA INDEX NAME)

OTHER CA INDEX NAMES:

CN 1-Propene, 2-methyl-, polymer with sodium hydrogen 2-butenedioate (9CI)

MF (C4 H8 . C4 H4 O4 . Na)x

CI PMS

PCT Polyolefin, Polyvinyl

SR CA

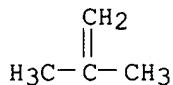
LC STN Files: CA, CAPLUS, USPATFULL

CM 1

CRN 44670-32-8 (6915-18-0)
CMF C4 H4 O4 . Na

● Na

CM 2

CRN 115-11-7
CMF C4 H83 REFERENCES IN FILE CA (1967 TO DATE)
3 REFERENCES IN FILE CAPLUS (1967 TO DATE)

REFERENCE 1: 119:170409

REFERENCE 2: 113:31788

REFERENCE 3: 111:31242

L89 ANSWER 85 OF 155 REGISTRY COPYRIGHT 2002 ACS

RN 117189-24-9 REGISTRY

CN 2,5-Furandione, polymer with 2-methyl-1-propene, lithium salt (9CI) (CA INDEX NAME)

OTHER CA INDEX NAMES:

CN 1-Propene, 2-methyl-, polymer with 2,5-furandione, lithium salt (9CI)

MF (C4 H8 . C4 H2 O3)x . x Li

PCT Polyolefin, Polyvinyl

SR CA

LC STN Files: CA, CAPLUS

CM 1

CRN 26426-80-2

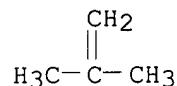
CMF (C4 H8 . C4 H2 O3)x

CCI PMS

CM 2

CRN 115-11-7

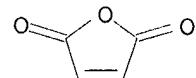
CMF C4 H8



CM 3

CRN 108-31-6

CMF C4 H2 O3



1 REFERENCES IN FILE CA (1967 TO DATE)

1 REFERENCES IN FILE CAPLUS (1967 TO DATE)

REFERENCE 1: 109:195111

L89 ANSWER 86 OF 155 REGISTRY COPYRIGHT 2002 ACS

RN 115634-85-0 REGISTRY

CN 2,5-Furandione, polymer with 2-methyl-1-propene and 2,2'-oxybis[ethanol], sodium salt (9CI) (CA INDEX NAME)

OTHER CA INDEX NAMES:

CN 1-Propene, 2-methyl-, polymer with 2,5-furandione and 2,2'-oxybis[ethanol], sodium salt (9CI)

CN Ethanol, 2,2'-oxybis-, polymer with 2,5-furandione and 2-methyl-1-propene, sodium salt (9CI)

MF (C4 H10 O3 . C4 H8 . C4 H2 O3)x . x Na

PCT Polyester, Polyester formed, Polyether, Polyolefin, Polyvinyl

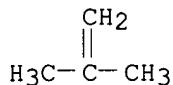
SR CA
 LC STN Files: CA, CAPLUS, USPATFULL

CM 1

CRN 115634-84-9
 CMF (C₄ H₁₀ O₃ . C₄ H₈ . C₄ H₂ O₃)_x
 CCI PMS

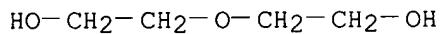
CM 2

CRN 115-11-7
 CMF C₄ H₈



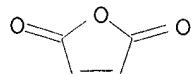
CM 3

CRN 111-46-6
 CMF C₄ H₁₀ O₃



CM 4

CRN 108-31-6
 CMF C₄ H₂ O₃



1 REFERENCES IN FILE CA (1967 TO DATE)
 1 REFERENCES IN FILE CAPLUS (1967 TO DATE)

REFERENCE 1: 109:56499

L89 ANSWER 87 OF 155 REGISTRY COPYRIGHT 2002 ACS

RN 115634-83-8 REGISTRY

CN 2,5-Furandione, polymer with 2-methyl-1-propene and 1,2,3-propanetriol, sodium salt (9CI) (CA INDEX NAME)

OTHER CA INDEX NAMES:

CN 1,2,3-Propanetriol, polymer with 2,5-furandione and 2-methyl-1-propene, sodium salt (9CI)

CN 1-Propene, 2-methyl-, polymer with 2,5-furandione and 1,2,3-propanetriol, sodium salt (9CI)

OTHER NAMES:

CN Isobutylene-glycerol-maleic anhydride copolymer sodium salt

MF (C₄ H₈ . C₄ H₂ O₃ . C₃ H₈ O₃)_x . x Na

PCT Polyester, Polyester formed, Polyolefin, Polyvinyl

SR CA

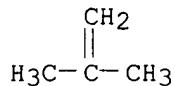
LC STN Files: CA, CAPLUS, USPATFULL

CM 1

CRN 115634-82-7
 CMF (C4 H8 . C4 H2 O3 . C3 H8 O3)x
 CCI PMS

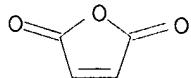
CM 2

CRN 115-11-7
 CMF C4 H8



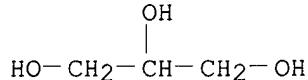
CM 3

CRN 108-31-6
 CMF C4 H2 O3



CM 4

CRN 56-81-5
 CMF C3 H8 O3



2 REFERENCES IN FILE CA (1967 TO DATE)
 2 REFERENCES IN FILE CAPLUS (1967 TO DATE)

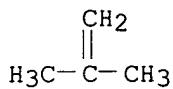
REFERENCE 1: 128:35939

REFERENCE 2: 109:56499

L89 ANSWER 88 OF 155 REGISTRY COPYRIGHT 2002 ACS
 RN 115634-82-7 REGISTRY
 CN 2,5-Furandione, polymer with 2-methyl-1-propene and 1,2,3-propanetriol
 (9CI) (CA INDEX NAME)
 OTHER CA INDEX NAMES:
 CN 1,2,3-Propanetriol, polymer with 2,5-furandione and 2-methyl-1-propene
 (9CI)
 CN 1-Propene, 2-methyl-, polymer with 2,5-furandione and 1,2,3-propanetriol
 (9CI)
 MF (C4 H8 . C4 H2 O3 . C3 H8 O3)x
 CI PMS, COM
 PCT Polyester, Polyester formed, Polyolefin, Polyvinyl
 SR CA

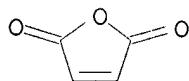
CM 1

CRN 115-11-7
 CMF C4 H8



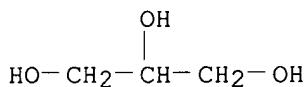
CM 2

CRN 108-31-6
 CMF C4 H2 O3



CM 3

CRN 56-81-5
 CMF C3 H8 O3



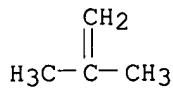
L89 ANSWER 89 OF 155 REGISTRY COPYRIGHT 2002 ACS
 RN 115634-81-6 REGISTRY
 CN 2,5-Furandione, polymer with 1,4-butanediol and 2-methyl-1-propene, sodium salt (9CI) (CA INDEX NAME)
 OTHER CA INDEX NAMES:
 CN 1,4-Butanediol, polymer with 2,5-furandione and 2-methyl-1-propene, sodium salt (9CI)
 CN 1-Propene, 2-methyl-, polymer with 1,4-butanediol and 2,5-furandione, sodium salt (9CI)
 MF (C4 H10 O2 . C4 H8 . C4 H2 O3)x . x Na
 PCT Polyester, Polyester formed, Polyolefin, Polyvinyl
 SR CA
 LC STN Files: CA, CAPLUS, USPATFULL

CM 1

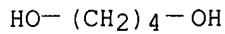
CRN 115634-80-5
 CMF (C4 H10 O2 . C4 H8 . C4 H2 O3)x
 CCI PMS

CM 2

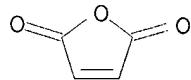
CRN 115-11-7
 CMF C4 H8



CM 3

CRN 110-63-4
CMF C4 H10 O2

CM 4

CRN 108-31-6
CMF C4 H2 O31 REFERENCES IN FILE CA (1967 TO DATE)
1 REFERENCES IN FILE CAPLUS (1967 TO DATE)

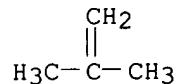
REFERENCE 1: 109:56499

L89 ANSWER 90 OF 155 REGISTRY COPYRIGHT 2002 ACS
 RN 115634-79-2 REGISTRY
 CN 2,5-Furandione, polymer with 1,2-ethanediol and 2-methyl-1-propene, sodium salt (9CI) (CA INDEX NAME)
 OTHER CA INDEX NAMES:
 CN 1,2-Ethanediol, polymer with 2,5-furandione and 2-methyl-1-propene, sodium salt (9CI)
 CN 1-Propene, 2-methyl-, polymer with 1,2-ethanediol and 2,5-furandione, sodium salt (9CI)
 MF (C4 H8 . C4 H2 O3 . C2 H6 O2)x . x Na
 PCT Polyester, Polyester formed, Polyolefin, Polyvinyl
 SR CA
 LC STN Files: CA, CAPLUS, USPATFULL

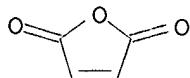
CM 1

CRN 115634-78-1
CMF (C4 H8 . C4 H2 O3 . C2 H6 O2)x
CCI PMS

CM 2

CRN 115-11-7
CMF C4 H8

CM 3

CRN 108-31-6
CMF C4 H2 O3

CM 4

CRN 107-21-1
CMF C2 H6 O2HO-CH₂-CH₂-OH1 REFERENCES IN FILE CA (1967 TO DATE)
1 REFERENCES IN FILE CAPLUS (1967 TO DATE)

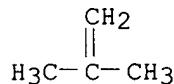
REFERENCE 1: 109:56499

L89 ANSWER 91 OF 155 REGISTRY COPYRIGHT 2002 ACS
 RN 115634-77-0 REGISTRY
 CN 2,5-Furandione, polymer with 2-methyl-1-propene and 1,2-propanediol, sodium salt (9CI) (CA INDEX NAME)
 OTHER CA INDEX NAMES:
 CN 1,2-Propanediol, polymer with 2,5-furandione and 2-methyl-1-propene, sodium salt (9CI)
 CN 1-Propene, 2-methyl-, polymer with 2,5-furandione and 1,2-propanediol, sodium salt (9CI)
 MF (C4 H8 . C4 H2 O3 . C3 H8 O2)x . x Na
 PCT Polyester, Polyester formed, Polyolefin, Polyvinyl
 SR CA
 LC STN Files: CA, CAPLUS, USPATFULL

CM 1

CRN 115634-76-9
CMF (C4 H8 . C4 H2 O3 . C3 H8 O2)x
CCI PMS

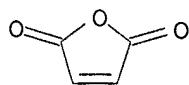
CM 2

CRN 115-11-7
CMF C4 H8

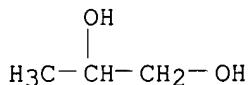
CM 3

CRN 108-31-6

CMF C4 H2 O3



CM 4

CRN 57-55-6
CMF C3 H8 O21 REFERENCES IN FILE CA (1967 TO DATE)
1 REFERENCES IN FILE CAPLUS (1967 TO DATE)

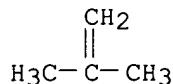
REFERENCE 1: 109:56499

L89 ANSWER 92 OF 155 REGISTRY COPYRIGHT 2002 ACS
 RN 114783-38-9 REGISTRY
 CN 2-Butenedioic acid (2Z)-, polymer with 2-methyl-1-propene and methyl 2-propenoate, ammonium salt (9CI) (CA INDEX NAME)
 OTHER CA INDEX NAMES:
 CN 1-Propene, 2-methyl-, polymer with (2Z)-2-butenedioic acid and methyl 2-propenoate, ammonium salt (9CI)
 CN 1-Propene, 2-methyl-, polymer with (Z)-2-butenedioic acid and methyl 2-propenoate, ammonium salt
 CN 2-Butenedioic acid (Z)-, polymer with 2-methyl-1-propene and methyl 2-propenoate, ammonium salt
 CN 2-Propenoic acid, methyl ester, polymer with (2Z)-2-butenedioic acid and 2-methyl-1-propene, ammonium salt (9CI)
 CN 2-Propenoic acid, methyl ester, polymer with (Z)-2-butenedioic acid and 2-methyl-1-propene, ammonium salt
 FS STEREOSEARCH
 MF (C4 H8 . C4 H6 O2 . C4 H4 O4)x . x H3 N
 PCT Polyacrylic, Polyolefin, Polyvinyl
 SR CA
 LC STN Files: CA, CAPLUS

CM 1

CRN 112340-07-5
CMF (C4 H8 . C4 H6 O2 . C4 H4 O4)x
CCI .PMS

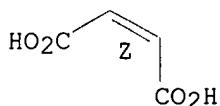
CM 2

CRN 115-11-7
CMF C4 H8

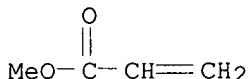
CM 3

CRN 110-16-7
CMF C4 H4 O4

Double bond geometry as shown.



CM 4

CRN 96-33-3
CMF C4 H6 O21 REFERENCES IN FILE CA (1967 TO DATE)
1 REFERENCES IN FILE CAPLUS (1967 TO DATE)

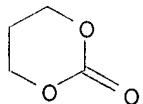
REFERENCE 1: 108:229742

L89 ANSWER 93 OF 155 REGISTRY COPYRIGHT 2002 ACS
 RN 113736-49-5 REGISTRY
 CN 2,5-Furandione, polymer with 1,3-dioxan-2-one and 2-methyl-1-propene,
 sodium salt (9CI) (CA INDEX NAME)
 OTHER CA INDEX NAMES:
 CN 1,3-Dioxan-2-one, polymer with 2,5-furandione and 2-methyl-1-propene,
 sodium salt (9CI)
 CN 1-Propene, 2-methyl-, polymer with 1,3-dioxan-2-one and 2,5-furandione,
 sodium salt (9CI)
 MF (C4 H8 . C4 H6 O3 . C4 H2 O3)x . x Na
 PCT Polycarbonate, Polycarbonate formed, Polyolefin, Polyvinyl
 SR CA
 LC STN Files: CA, CAPLUS, USPATFULL

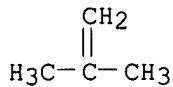
CM 1

CRN 113736-48-4
CMF (C4 H8 . C4 H6 O3 . C4 H2 O3)x
CCI PMS

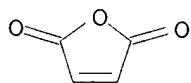
CM 2

CRN 2453-03-4
CMF C4 H6 O3

CM 3

CRN 115-11-7
CMF C4 H8

CM 4

CRN 108-31-6
CMF C4 H2 O32 REFERENCES IN FILE CA (1967 TO DATE)
2 REFERENCES IN FILE CAPLUS (1967 TO DATE)

REFERENCE 1: 111:45364

REFERENCE 2: 108:156498

L89 ANSWER 94 OF 155 REGISTRY COPYRIGHT 2002 ACS
RN 113095-14-0 REGISTRY
CN 2,5-Furandione, polymer with 2-methyl-1-propene, calcium salt (9CI) (CA INDEX NAME)

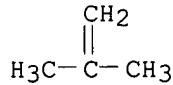
OTHER CA INDEX NAMES:

CN 1-Propene, 2-methyl-, polymer with 2,5-furandione, calcium salt (9CI)
OTHER NAMES:CN Isobutene-maleic anhydride copolymer calcium salt
CN Isobutylene-maleic anhydride copolymer calcium salt
MF (C4 H8 . C4 H2 O3)x . x Ca
PCT Polyolefin, Polyvinyl
SR CA
LC STN Files: CA, CAPLUS

CM 1

CRN 26426-80-2
CMF (C4 H8 . C4 H2 O3)x
CCI PMS

CM 2

CRN 115-11-7
CMF C4 H8

CM 3

CRN 108-31-6
CMF C4 H2 O33 REFERENCES IN FILE CA (1967 TO DATE)
3 REFERENCES IN FILE CAPLUS (1967 TO DATE)

REFERENCE 1: 115:188778

REFERENCE 2: 108:117838

REFERENCE 3: 108:113802

L89 ANSWER 95 OF 155 REGISTRY COPYRIGHT 2002 ACS

RN 112902-87-1 REGISTRY

CN 2-Propenoic acid, methyl ester, polymer with 2,5-furandione and
2-methyl-1-propene, ammonium salt (9CI) (CA INDEX NAME)

OTHER CA INDEX NAMES:

CN 1-Propene, 2-methyl-, polymer with 2,5-furandione and methyl 2-propenoate,
ammonium salt (9CI)CN 2,5-Furandione, polymer with 2-methyl-1-propene and methyl 2-propenoate,
ammonium salt (9CI)

OTHER NAMES:

CN Isobutylene-maleic anhydride-methyl acrylate copolymer ammonium salt

MF (C4 H8 . C4 H6 O2 . C4 H2 O3)x . x H3 N

PCT Polyacrylic, Polyolefin, Polyvinyl

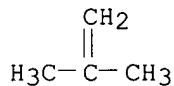
SR CA

LC STN Files: CA, CAPLUS

CM 1

CRN 53367-76-3
CMF (C4 H8 . C4 H6 O2 . C4 H2 O3)x
CCI PMS

CM 2

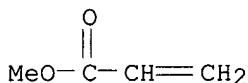
CRN 115-11-7
CMF C4 H8

CM 3

CRN 108-31-6
CMF C4 H2 O3



CM 4

CRN 96-33-3
CMF C4 H6 O23 REFERENCES IN FILE CA (1967 TO DATE)
3 REFERENCES IN FILE CAPLUS (1967 TO DATE)

REFERENCE 1: 108:169335

REFERENCE 2: 108:152307

REFERENCE 3: 108:77367

L89 ANSWER 96 OF 155 REGISTRY COPYRIGHT 2002 ACS

RN 112340-08-6 REGISTRY

CN 2-Butenedioic acid (2Z)-, polymer with 2-methyl-1-propene and methyl 2-propenoate, sodium salt (9CI) (CA INDEX NAME)

OTHER CA INDEX NAMES:

CN 1-Propene, 2-methyl-, polymer with (2Z)-2-butenedioic acid and methyl 2-propenoate, sodium salt (9CI)

CN 1-Propene, 2-methyl-, polymer with (Z)-2-butenedioic acid and methyl 2-propenoate, sodium salt

CN 2-Butenedioic acid (Z)-, polymer with 2-methyl-1-propene and methyl 2-propenoate, sodium salt

CN 2-Propenoic acid, methyl ester, polymer with (2Z)-2-butenedioic acid and 2-methyl-1-propene, sodium salt (9CI)

CN 2-Propenoic acid, methyl ester, polymer with (Z)-2-butenedioic acid and 2-methyl-1-propene, sodium salt

OTHER NAMES:

CN Isobutylene-methacrylic acid-methyl acrylate copolymer sodium salt

FS STEREOSEARCH

MF (C4 H8 . C4 H6 O2 . C4 H4 O4)x . x Na

PCT Polyacrylic, Polyolefin, Polyvinyl

SR CA

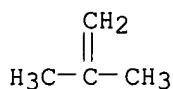
LC STN Files: CA, CAPLUS

CM 1

CRN 112340-07-5
CMF (C4 H8 . C4 H6 O2 . C4 H4 O4)x
CCI PMS

CM 2

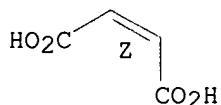
CRN 115-11-7
CMF C4 H8



CM 3

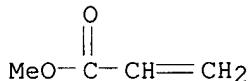
CRN 110-16-7
CMF C4 H4 O4

Double bond geometry as shown.



CM 4

CRN 96-33-3
CMF C4 H6 O2



8 REFERENCES IN FILE CA (1967 TO DATE)
8 REFERENCES IN FILE CAPLUS (1967 TO DATE)

REFERENCE 1: 110:174689

REFERENCE 2: 109:39532

REFERENCE 3: 108:159082

REFERENCE 4: 108:152091

REFERENCE 5: 108:151781

REFERENCE 6: 108:114281

REFERENCE 7: 108:61428

REFERENCE 8: 108:57983

L89 ANSWER 97 OF 155 RES

L89 ANSWER 97 OF 155 REGISTRY COPYRIGHT 2002 ACS
RN 111984-95-3 REGISTRY
CN 2-Propenoic acid, 2-methyl-, sodium salt, polymer with 2-methyl-1-propene
(9CI) (CA INDEX NAME)

OTHER CA INDEX NAMES:

CN 1-Propene, 2-methyl-, polymer with sodium 2-methyl-2-propenoate (9CI)
MF (C₄ H₈ . C₄ H₆ O₂ . Na)x

MF C4
CT PMS

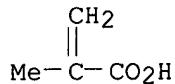
CI FMS
PCT Polyacrylic, Polyolefin

FCI
SB

SR CA
LC STN Files: CA CAPLUS USPAFILE

CM 1

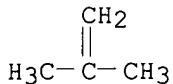
CRN 5536-61-8 (79-41-4)
 CMF C4 H6 O2 . Na



● Na

CM 2

CRN 115-11-7
 CMF C4 H8



2 REFERENCES IN FILE CA (1967 TO DATE)
 2 REFERENCES IN FILE CAPLUS (1967 TO DATE)

REFERENCE 1: 112:153711

REFERENCE 2: 108:17788

L89 ANSWER 98 OF 155 REGISTRY COPYRIGHT 2002 ACS

RN 111575-31-6 REGISTRY

CN 2-Butenedioic acid (2Z)-, polymer with butanedioic acid and
2-methyl-1-propene, ammonium salt (9CI) (CA INDEX NAME)

OTHER CA INDEX NAMES:

CN 1-Propene, 2-methyl-, polymer with butanedioic acid and (Z)-2-butenedioic
acid, ammonium saltCN 1-Propene, 2-methyl-, polymer with butanedioic acid and (2Z)-2-butenedioic
acid, ammonium salt (9CI)CN 2-Butenedioic acid (Z)-, polymer with butanedioic acid and
2-methyl-1-propene, ammonium saltCN Butanedioic acid, polymer with (2Z)-2-butenedioic acid and
2-methyl-1-propene, ammonium salt (9CI)CN Butanedioic acid, polymer with (Z)-2-butenedioic acid and
2-methyl-1-propene, ammonium salt

FS STEREOSEARCH

MF (C4 H8 . C4 H6 O4 . C4 H4 O4)x . x H3 N

PCT Polyolefin, Polyether, Polyvinyl

SR CA

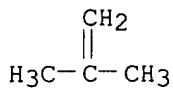
LC STN Files: CA, CAPLUS

CM 1

CRN 111575-30-5
 CMF (C4 H8 . C4 H6 O4 . C4 H4 O4)x
 CCI PMS

CM 2

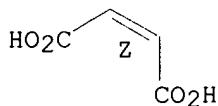
CRN 115-11-7
 CMF C4 H8



CM 3

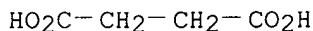
CRN 110-16-7
 CMF C4 H4 O4

Double bond geometry as shown.



CM 4

CRN 110-15-6
 CMF C4 H6 O4



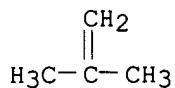
1 REFERENCES IN FILE CA (1967 TO DATE)
 1 REFERENCES IN FILE CAPLUS (1967 TO DATE)

REFERENCE 1: 107:237584

L89 ANSWER 99 OF 155 REGISTRY COPYRIGHT 2002 ACS
 RN 111575-30-5 REGISTRY
 CN 2-Butenedioic acid (2Z)-, polymer with butanedioic acid and
 2-methyl-1-propene (9CI) (CA INDEX NAME)
 OTHER CA INDEX NAMES:
 CN 1-Propene, 2-methyl-, polymer with butanedioic acid and (Z)-2-butenedioic
 acid
 CN 1-Propene, 2-methyl-, polymer with butanedioic acid and (2Z)-2-butenedioic
 acid (9CI)
 CN 2-Butenedioic acid (Z)-, polymer with butanedioic acid and
 2-methyl-1-propene
 CN Butanedioic acid, polymer with (2Z)-2-butenedioic acid and
 2-methyl-1-propene (9CI)
 CN Butanedioic acid, polymer with (Z)-2-butenedioic acid and
 2-methyl-1-propene
 FS STEREOSEARCH
 MF (C4 H8 . C4 H6 O4 . C4 H4 O4)x
 CI PMS, COM
 PCT Polyolefin, Polyether, Polyvinyl
 SR CA

CM 1

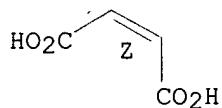
CRN 115-11-7
 CMF C4 H8



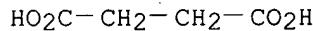
CM 2

CRN 110-16-7
CMF C4 H4 O4

Double bond geometry as shown.



CM 3

CRN 110-15-6
CMF C4 H6 O4

L89 ANSWER 100 OF 155 REGISTRY COPYRIGHT 2002 ACS
 RN 110171-93-2 REGISTRY
 CN 2,5-Furandione, polymer with 2-methyl-1-propene, alternating (9CI) (CA
 INDEX NAME)

OTHER CA INDEX NAMES:

CN 1-Propene, 2-methyl-, polymer with 2,5-furandione, alternating (9CI)

OTHER NAMES:

CN IM 10

CN Isobam 10

CN Isobutene-maleic anhydride alternating copolymer

CN Isobutylene-maleic anhydride alternating copolymer

MF (C4 H8 . C4 H2 O3)x

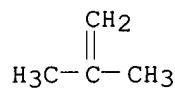
CI PMS, COM

PCT Polyolefin, Polyvinyl

SR CA

LC STN Files: CA, CAPLUS, USPATFULL

CM 1

CRN 115-11-7
CMF C4 H8

CM 2

CRN 108-31-6
 CMF C4 H2 O3



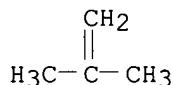
56 REFERENCES IN FILE CA (1967 TO DATE)
 23 REFERENCES TO NON-SPECIFIC DERIVATIVES IN FILE CA
 56 REFERENCES IN FILE CAPLUS (1967 TO DATE)

REFERENCE 1: 137:110030
 REFERENCE 2: 137:21022
 REFERENCE 3: 136:38330
 REFERENCE 4: 136:38329
 REFERENCE 5: 136:38091
 REFERENCE 6: 135:378797
 REFERENCE 7: 135:273403
 REFERENCE 8: 135:243049
 REFERENCE 9: 135:181106
 REFERENCE 10: 134:42841

L89 ANSWER 101 OF 155 REGISTRY COPYRIGHT 2002 ACS
 RN 109800-39-7 REGISTRY
 CN 2,5-Furandione, polymer with 2-methyl-1-propene, graft (9CI) (CA INDEX NAME)
 OTHER CA INDEX NAMES:
 CN 1-Propene, 2-methyl-, polymer with 2,5-furandione, graft (9CI)
 MF (C4 H8 . C4 H2 O3)x
 CI PMS
 PCT Polyolefin, Polyvinyl
 SR CA
 LC STN Files: CA, CAPLUS, USPATFULL

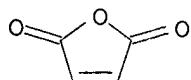
CM 1

CRN 115-11-7
 CMF C4 H8



CM 2

CRN 108-31-6
 CMF C4 H2 O3



3 REFERENCES IN FILE CA (1967 TO DATE)
 2 REFERENCES TO NON-SPECIFIC DERIVATIVES IN FILE CA
 3 REFERENCES IN FILE CAPLUS (1967 TO DATE)

REFERENCE 1: 123:33940

REFERENCE 2: 107:155890

REFERENCE 3: 107:80816

L89 ANSWER 102 OF 155 REGISTRY COPYRIGHT 2002 ACS

RN 109180-43-0 REGISTRY

CN 2-Propenoic acid, 2-methyl-, docosyl ester, polymer with 2,5-furandione and 2-methyl-1-propene, ammonium salt (9CI) (CA INDEX NAME)

OTHER CA INDEX NAMES:

CN 1-Propene, 2-methyl-, polymer with docosyl 2-methyl-2-propenoate and 2,5-furandione, ammonium salt (9CI)

CN 2,5-Furandione, polymer with 2-methyl-1-propene and docosyl 2-methyl-2-propenoate, ammonium salt (9CI)

MF (C₂₆ H₅₀ O₂ . C₄ H₈ . C₄ H₂ O₃)_x . x H₃ N

PCT Polyacrylic, Polyolefin, Polyvinyl

SR CA

LC STN Files: CA, CAPLUS

CM 1

CRN 103875-04-3

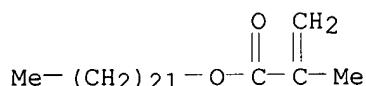
CMF (C₂₆ H₅₀ O₂ . C₄ H₈ . C₄ H₂ O₃)_x

CCI PMS

CM 2

CRN 16669-27-5

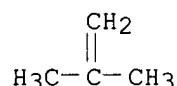
CMF C₂₆ H₅₀ O₂



CM 3

CRN 115-11-7

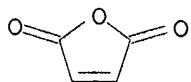
CMF C₄ H₈



CM 4

CRN 108-31-6

CMF C₄ H₂ O₃



2 REFERENCES IN FILE CA (1967 TO DATE)
 2 REFERENCES IN FILE CAPLUS (1967 TO DATE)

REFERENCE 1: 115:184619

REFERENCE 2: 107:42971

L89 ANSWER 103 OF 155 REGISTRY COPYRIGHT 2002 ACS

RN 107162-97-0 REGISTRY

CN 2,5-Furandione, polymer with ethenol and 2-methyl-1-propene, ammonium salt (9CI) (CA INDEX NAME)

OTHER CA INDEX NAMES:

CN 1-Propene, 2-methyl-, polymer with ethenol and 2,5-furandione, ammonium salt (9CI)

CN Ethenol, polymer with 2,5-furandione and 2-methyl-1-propene, ammonium salt (9CI)

MF (C4 H8 . C4 H2 O3 . C2 H4 O)x . x H3 N

PCT Polyolefin, Polyvinyl

SR CA

LC STN Files: CA, CAPLUS

CM 1

CRN 52641-05-1

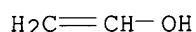
CMF (C4 H8 . C4 H2 O3 . C2 H4 O)x

CCI PMS

CM 2

CRN 557-75-5

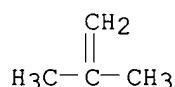
CMF C2 H4 O



CM 3

CRN 115-11-7

CMF C4 H8



CM 4

CRN 108-31-6

CMF C4 H2 O3



1 REFERENCES IN FILE CA (1967 TO DATE)
 1 REFERENCES IN FILE CAPLUS (1967 TO DATE)

REFERENCE 1: 106:104086

L89 ANSWER 104 OF 155 REGISTRY COPYRIGHT 2002 ACS
 RN 106818-17-1 REGISTRY
 CN 2,5-Furandione, dihydro-, polymer with 2-methyl-1-propene (9CI) (CA INDEX NAME)

OTHER CA INDEX NAMES:

CN 1-Propene, 2-methyl-, polymer with dihydro-2,5-furandione (9CI)

OTHER NAMES:

CN Isobutylene-succinic anhydride copolymer

MF (C4 H8 . C4 H4 O3)x

CI PMS

PCT Polyolefin, Polyether

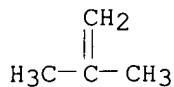
SR CA

LC STN Files: CA, CAPLUS, USPATFULL

CM 1

CRN 115-11-7

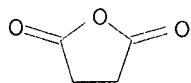
CMF C4 H8



CM 2

CRN 108-30-5

CMF C4 H4 O3



6 REFERENCES IN FILE CA (1967 TO DATE)
 2 REFERENCES TO NON-SPECIFIC DERIVATIVES IN FILE CA
 6 REFERENCES IN FILE CAPLUS (1967 TO DATE)

REFERENCE 1: 133:290110

REFERENCE 2: 130:41972

REFERENCE 3: 129:205088

REFERENCE 4: 125:118960

REFERENCE 5: 124:118614

REFERENCE 6: 106:89916

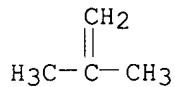
L89 ANSWER 105 OF 155 REGISTRY COPYRIGHT 2002 ACS
 RN 105062-76-8 REGISTRY
 CN 2-Propenoic acid, methyl ester, polymer with 2,5-furandione and
 2-methyl-1-propene, sodium salt (9CI) (CA INDEX NAME)
 OTHER CA INDEX NAMES:
 CN 1-Propene, 2-methyl-, polymer with 2,5-furandione and methyl 2-propenoate,
 sodium salt (9CI)
 CN 2,5-Furandione, polymer with 2-methyl-1-propene and methyl 2-propenoate,
 sodium salt (9CI)
 OTHER NAMES:
 CN Isobutylene-maleic anhydride-methyl acrylate copolymer sodium salt
 MF (C4 H8 . C4 H6 O2 . C4 H2 O3)x . x Na
 PCT Polyacrylic, Polyolefin, Polyvinyl
 SR CA
 LC STN Files: CA, CAPLUS

CM 1

CRN 53367-76-3
 CMF (C4 H8 . C4 H6 O2 . C4 H2 O3)x
 CCI PMS

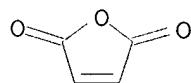
CM 2

CRN 115-11-7
 CMF C4 H8



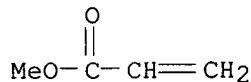
CM 3

CRN 108-31-6
 CMF C4 H2 O3



CM 4

CRN 96-33-3
 CMF C4 H6 O2



9 REFERENCES IN FILE CA (1967 TO DATE)
 1 REFERENCES TO NON-SPECIFIC DERIVATIVES IN FILE CA
 9 REFERENCES IN FILE CAPLUS (1967 TO DATE)

REFERENCE 1: 113:61256

REFERENCE 2: 112:218409

REFERENCE 3: 111:196709

REFERENCE 4: 110:96804

REFERENCE 5: 108:39722

REFERENCE 6: 107:177318

REFERENCE 7: 107:176762

REFERENCE 8: 107:117046

REFERENCE 9: 105:192455

L89 ANSWER 106 OF 155 REGISTRY COPYRIGHT 2002 ACS

RN 103193-63-1 REGISTRY

CN 2-Butenedioic acid (2Z)-, polymer with disodium (2Z)-2-butenedioate and 2-methyl-1-propene (9CI) (CA INDEX NAME)

OTHER CA INDEX NAMES:

CN 1-Propene, 2-methyl-, polymer with (2Z)-2-butenedioic acid and disodium (2Z)-2-butenedioate (9CI)

CN 1-Propene, 2-methyl-, polymer with (Z)-2-butenedioic acid and (Z)-disodium 2-butenedioate

CN 2-Butenedioic acid (2Z)-, disodium salt, polymer with (2Z)-2-butenedioic acid and 2-methyl-1-propene (9CI)

CN 2-Butenedioic acid (Z)-, disodium salt, polymer with (Z)-2-butenedioic acid and 2-methyl-1-propene

CN 2-Butenedioic acid (Z)-, polymer with (Z)-disodium 2-butenedioate and 2-methyl-1-propene

OTHER NAMES:

CN Isobutylene-maleic acid-sodium maleate copolymer

FS STEREOSEARCH

MF (C4 H8 . C4 H4 O4 . C4 H4 O4 . 2 Na)x

CI PMS

PCT Polyolefin, Polyvinyl

SR CA

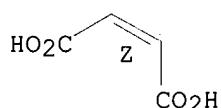
LC STN Files: CA, CAPLUS, USPATFULL

CM 1

CRN 371-47-1 (110-16-7)

CMF C4 H4 O4 . 2 Na

Double bond geometry as shown.

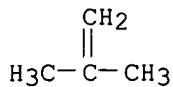


2 Na

CM 2

CRN 115-11-7

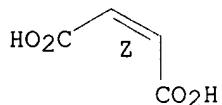
CMF C4 H8



CM 3

CRN 110-16-7
 CMF C4 H4 O4

Double bond geometry as shown.



2 REFERENCES IN FILE CA (1967 TO DATE)
 2 REFERENCES IN FILE CAPLUS (1967 TO DATE)

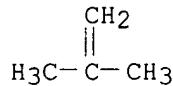
REFERENCE 1: 125:13001

REFERENCE 2: 105:44239

L89 ANSWER 107 OF 155 REGISTRY COPYRIGHT 2002 ACS
 RN 101944-31-4 REGISTRY
 CN 2-Propenoic acid, 2-methyl-, sodium salt, homopolymer, compd. with
 2-methyl-1-propene (1:1) (9CI) (CA INDEX NAME)
 OTHER CA INDEX NAMES:
 CN 1-Propene, 2-methyl-, compd. with sodium 2-methyl-2-propenoate homopolymer
 (1:1) (9CI)
 MF C4 H8 . (C4 H6 O2 . Na)x
 PCT Polyacrylic
 SR CA
 LC STN Files: CA, CAPLUS, USPATFULL

CM 1

CRN 115-11-7
 CMF C4 H8

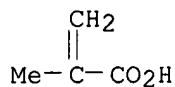


CM 2

CRN 25086-62-8
 CMF (C4 H6 O2 . Na)x
 CCI PMS

CM 3

CRN 5536-61-8 (79-41-4)
 CMF C4 H6 O2 . Na



● Na

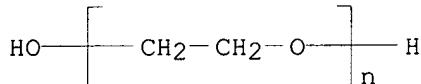
1 REFERENCES IN FILE CA (1967 TO DATE)
 1 REFERENCES IN FILE CAPLUS (1967 TO DATE)

REFERENCE 1: 104:202345

L89 ANSWER 108 OF 155 REGISTRY COPYRIGHT 2002 ACS
 RN 101706-97-2 REGISTRY
 CN 2,5-Furandione, polymer with 1-propene, ester with .alpha.-hydro-.omega.-hydroxypoly(oxy-1,2-ethanediyl) (9CI) (CA INDEX NAME)
 OTHER CA INDEX NAMES:
 CN 1-Propene, polymer with 2,5-furandione, ester with .alpha.-hydro-.omega.-hydroxypoly(oxy-1,2-ethanediyl) (9CI)
 MF (C₄ H₂ O₃ . C₃ H₆)_x . x (C₂ H₄ O)_n H₂ O
 PCT Polyether, Polyolefin, Polyvinyl
 SR CA
 LC STN Files: CA, CAPLUS

CM 1

CRN 25322-68-3
 CMF (C₂ H₄ O)_n H₂ O
 CCI PMS

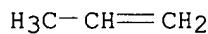


CM 2

CRN 25722-45-6
 CMF (C₄ H₂ O₃ . C₃ H₆)_x
 CCI PMS

CM 3

CRN 115-07-1
 CMF C₃ H₆



CM 4

CRN 108-31-6
 CMF C₄ H₂ O₃



1 REFERENCES IN FILE CA (1967 TO DATE)
 1 REFERENCES IN FILE CAPLUS (1967 TO DATE)

REFERENCE 1: 104:169108

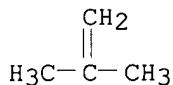
L89 ANSWER 109 OF 155 REGISTRY COPYRIGHT 2002 ACS
 RN 98701-96-3 REGISTRY
 CN 2,5-Furandione, polymer with 2-methyl-1-propene, ammonium magnesium salt
 (9CI) (CA INDEX NAME)
 OTHER CA INDEX NAMES:
 CN 1-Propene, 2-methyl-, polymer with 2,5-furandione, ammonium magnesium salt
 (9CI)
 OTHER NAMES:
 CN Isobutylene-maleic anhydride copolymer ammonium magnesium salt
 MF (C₄ H₈ . C₄ H₂ O₃)_x . x H₃ N . x Mg
 PCT Polyolefin, Polyvinyl
 SR CA
 LC STN Files: CA, CAPLUS

CM 1

CRN 26426-80-2
 CMF (C₄ H₈ . C₄ H₂ O₃)_x
 CCI PMS

CM 2

CRN 115-11-7
 CMF C₄ H₈



CM 3

CRN 108-31-6
 CMF C₄ H₂ O₃



1 REFERENCES IN FILE CA (1967 TO DATE)
 1 REFERENCES IN FILE CAPLUS (1967 TO DATE)

REFERENCE 1: 103:162097

L89 ANSWER 110 OF 155 REGISTRY COPYRIGHT 2002 ACS
 RN 98701-94-1 REGISTRY
 CN 2,5-Furandione, polymer with 2-methyl-1-propene, calcium sodium salt (9CI)
 (CA INDEX NAME)

OTHER CA INDEX NAMES:

CN 1-Propene, 2-methyl-, polymer with 2,5-furandione, calcium sodium salt
(9CI)

OTHER NAMES:

CN Isobutylene-maleic anhydride copolymer calcium sodium salt
MF (C₄ H₈ . C₄ H₂ O₃)_x . x Ca . x Na

PCT Polyolefin, Polyvinyl

SR CA

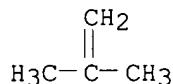
LC STN Files: CA, CAPLUS

CM 1

CRN 26426-80-2
CMF (C₄ H₈ . C₄ H₂ O₃)_x
CCI PMS

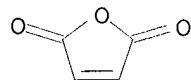
CM 2

CRN 115-11-7
CMF C₄ H₈



CM 3

CRN 108-31-6
CMF C₄ H₂ O₃



2 REFERENCES IN FILE CA (1967 TO DATE)
2 REFERENCES IN FILE CAPLUS (1967 TO DATE)

REFERENCE 1: 115:188778

REFERENCE 2: 103:162097

L89 ANSWER 111 OF 155 REGISTRY COPYRIGHT 2002 ACS

RN 97939-57-6 REGISTRY

CN 2,5-Furandione, polymer with 2-methyl-1-propene, compd. with
2,2',2''-nitrilotris[ethanol] (9CI) (CA INDEX NAME)

OTHER CA INDEX NAMES:

CN 1-Propene, 2-methyl-, polymer with 2,5-furandione, compd. with
2,2',2''-nitrilotris[ethanol] (9CI)

CN Ethanol, 2,2',2''-nitrilotris-, compd. with 2,5-furandione polymer with
2-methyl-1-propene (9CI)

MF C₆ H₁₅ N O₃ . x (C₄ H₈ . C₄ H₂ O₃)_x

PCT Polyolefin, Polyvinyl

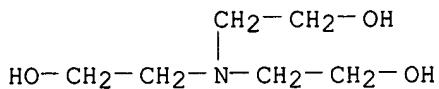
SR CA

LC STN Files: CA, CAPLUS

CM 1

CRN 102-71-6

CMF C6 H15 N O3

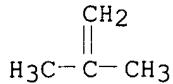


CM 2

CRN 26426-80-2
 CMF (C4 H8 . C4 H2 O3)x
 CCI PMS

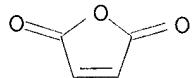
CM 3

CRN 115-11-7
 CMF C4 H8



CM 4

CRN 108-31-6
 CMF C4 H2 O3



1 REFERENCES IN FILE CA (1967 TO DATE)
 1 REFERENCES IN FILE CAPLUS (1967 TO DATE)

REFERENCE 1: 103:107497

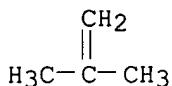
L89 ANSWER 112 OF 155 REGISTRY COPYRIGHT 2002 ACS
 RN 97696-05-4 REGISTRY
 CN 2-Propenoic acid, 2-methyl-, polymer with 2-methyl-1-propene, sodium salt
 (9CI) (CA INDEX NAME)
 OTHER CA INDEX NAMES:
 CN 1-Propene, 2-methyl-, polymer with 2-methyl-2-propenoic acid, sodium salt
 (9CI)
 MF (C4 H8 . C4 H6 O2)x . x Na
 PCT Polyacrylic, Polyolefin
 SR CA
 LC STN Files: CA, CAPLUS

CM 1

CRN 54406-39-2
 CMF (C4 H8 . C4 H6 O2)x
 CCI PMS

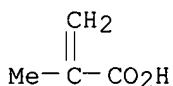
CM 2

CRN 115-11-7
 CMF C4 H8



CM 3

CRN 79-41-4
 CMF C4 H6 O2



2 REFERENCES IN FILE CA (1967 TO DATE)
 2 REFERENCES IN FILE CAPLUS (1967 TO DATE)

REFERENCE 1: 103:107442

REFERENCE 2: 103:73674

L89 ANSWER 113 OF 155 REGISTRY COPYRIGHT 2002 ACS
 RN 96451-27-3 REGISTRY
 CN 2-Butenedioic acid (2E)-, disodium salt, polymer with 2-methyl-1-propene
 (9CI) (CA INDEX NAME)

OTHER CA INDEX NAMES:

CN 1-Propene, 2-methyl-, polymer with (E)-disodium 2-butenedioate (9CI)
 CN 2-Butenedioic acid (E)-, disodium salt, polymer with 2-methyl-1-propene
 FS STEREOSEARCH
 MF (C4 H8 . C4 H4 O4 . 2 Na)x
 CI PMS
 PCT Polyolefin, Polyvinyl
 LC STN Files: CA, CAPLUS

CM 1

CRN 17013-01-3 (110-17-8)
 CMF C4 H4 O4 . 2 Na

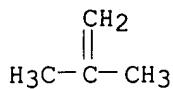
Double bond geometry as shown.



●2 Na

CM 2

CRN 115-11-7
 CMF C4 H8



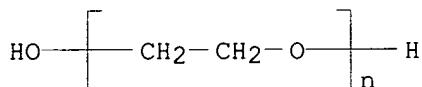
1 REFERENCES IN FILE CA (1967 TO DATE)
 1 REFERENCES IN FILE CAPLUS (1967 TO DATE)

REFERENCE 1: 102:208275

L89 ANSWER 114 OF 155 REGISTRY COPYRIGHT 2002 ACS
 RN 94558-62-0 REGISTRY
 CN 2-Butenedioic acid (2Z)-, polymer with ethene and .alpha.-hydro-.omega.-hydroxypoly(oxy-1,2-ethanediyl) (9CI) (CA INDEX NAME)
 OTHER CA INDEX NAMES:
 CN 2-Butenedioic acid (Z)-, polymer with ethene and .alpha.-hydro-.omega.-hydroxypoly(oxy-1,2-ethanediyl)
 CN Ethene, polymer with (2Z)-2-butenedioic acid and .alpha.-hydro-.omega.-hydroxypoly(oxy-1,2-ethanediyl) (9CI)
 CN Ethene, polymer with (Z)-2-butenedioic acid and .alpha.-hydro-.omega.-hydroxypoly(oxy-1,2-ethanediyl)
 CN Poly(oxy-1,2-ethanediyl), .alpha.-hydro-.omega.-hydroxy-, polymer with (2Z)-2-butenedioic acid and ethene (9CI)
 CN Poly(oxy-1,2-ethanediyl), .alpha.-hydro-.omega.-hydroxy-, polymer with (Z)-2-butenedioic acid and ethene
 FS STEREOSEARCH
 MF (C₄ H₄ O₄ . (C₂ H₄ O)_n H₂ O . C₂ H₄)_x
 CI PMS
 PCT Polyester, Polyester formed, Polyether, Polyolefin, Polyvinyl
 LC STN Files: CA, CAPLUS

CM 1

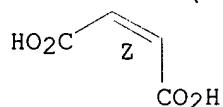
CRN 25322-68-3
 CMF (C₂ H₄ O)_n H₂ O
 CCI PMS



CM 2

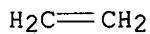
CRN 110-16-7
 CMF C₄ H₄ O₄

Double bond geometry as shown.



CM 3

CRN 74-85-1
 CMF C₂ H₄



1 REFERENCES IN FILE CA (1967 TO DATE)
 1 REFERENCES IN FILE CAPLUS (1967 TO DATE)

REFERENCE 1: 102:62716

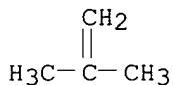
L89 ANSWER 115 OF 155 REGISTRY COPYRIGHT 2002 ACS
 RN 91778-14-2 REGISTRY
 CN 2-Propenoic acid, polymer with 2,5-furandione and 2-methyl-1-propene,
 sodium salt (9CI) (CA INDEX NAME)
 OTHER CA INDEX NAMES:
 CN 1-Propene, 2-methyl-, polymer with 2,5-furandione and 2-propenoic acid,
 sodium salt (9CI)
 CN 2,5-Furandione, polymer with 2-methyl-1-propene and 2-propenoic acid,
 sodium salt (9CI)
 MF (C4 H8 . C4 H2 O3 . C3 H4 O2)x . x Na
 PCT Polyacrylic, Polyolefin, Polyvinyl
 LC STN Files: CA, CAPLUS

CM 1

CRN 91778-13-1
 CMF (C4 H8 . C4 H2 O3 . C3 H4 O2)x
 CCI PMS

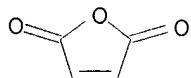
CM 2

CRN 115-11-7
 CMF C4 H8



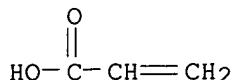
CM 3

CRN 108-31-6
 CMF C4 H2 O3



CM 4

CRN 79-10-7
 CMF C3 H4 O2



1 REFERENCES IN FILE CA (1967 TO DATE)
 1 REFERENCES IN FILE CAPLUS (1967 TO DATE)

REFERENCE 1: 101:113822

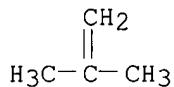
L89 ANSWER 116 OF 155 REGISTRY COPYRIGHT 2002 ACS
 RN 91778-04-0 REGISTRY
 CN 2,5-Furandione, polymer with methoxyethene and 2-methyl-1-propene, sodium salt (9CI) (CA INDEX NAME)
 OTHER CA INDEX NAMES:
 CN 1-Propene, 2-methyl-, polymer with 2,5-furandione and methoxyethene, sodium salt (9CI)
 CN Ethene, methoxy-, polymer with 2,5-furandione and 2-methyl-1-propene, sodium salt (9CI)
 MF (C4 H8 . C4 H2 O3 . C3 H6 O)x . x Na
 PCT Polyolefin, Polyvinyl
 LC STN Files: CA, CAPLUS

CM 1

CRN 91778-03-9
 CMF (C4 H8 . C4 H2 O3 . C3 H6 O)x
 CCI PMS

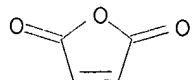
CM 2

CRN 115-11-7
 CMF C4 H8



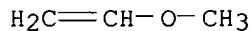
CM 3

CRN 108-31-6
 CMF C4 H2 O3



CM 4

CRN 107-25-5
 CMF C3 H6 O



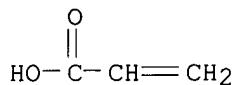
1 REFERENCES IN FILE CA (1967 TO DATE)
 1 REFERENCES IN FILE CAPLUS (1967 TO DATE)

REFERENCE 1: 101:113821

L89 ANSWER 117 OF 155 REGISTRY COPYRIGHT 2002 ACS
 RN 84420-43-9 REGISTRY
 CN Butanedioic acid, polymer with .alpha.-hydro-.omega.-hydroxypoly(oxy-1,2-ethanediyl), mono-2-propenoate (9CI) (CA INDEX NAME)
 OTHER CA INDEX NAMES:
 CN Poly(oxy-1,2-ethanediyl), .alpha.-hydro-.omega.-hydroxy-, polymer with butanedioic acid, mono-2-propenoate (9CI)
 MF (C₄ H₆ O₄ . (C₂ H₄ O)_n H₂ O)_x . C₃ H₄ O₂
 CI COM
 PCT Polyester, Polyester formed, Polyether

CM 1

CRN 79-10-7
 CMF C₃ H₄ O₂

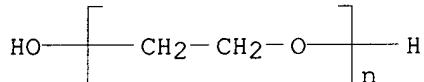


CM 2

CRN 9041-79-6
 CMF (C₄ H₆ O₄ . (C₂ H₄ O)_n H₂ O)_x
 CCI PMS

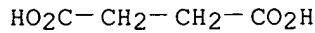
CM 3

CRN 25322-68-3
 CMF (C₂ H₄ O)_n H₂ O
 CCI PMS



CM 4

CRN 110-15-6
 CMF C₄ H₆ O₄



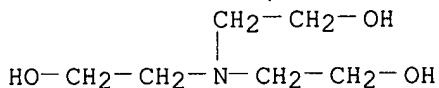
L89 ANSWER 118 OF 155 REGISTRY COPYRIGHT 2002 ACS
 RN 78537-83-4 REGISTRY
 CN 2,5-Furandione, polymer with 1-propene trimer, compd. with 2,2',2''-nitrilotris[ethanol] (9CI) (CA INDEX NAME)
 OTHER CA INDEX NAMES:
 CN 1-Propene, trimer, polymer with 2,5-furandione, compd. with 2,2',2''-nitrilotris[ethanol] (9CI)
 CN Ethanol, 2,2',2''-nitrilotris-, compd. with 2,5-furandione polymer with 1-propene trimer (9CI)
 MF C₆ H₁₅ N O₃ . x (C₄ H₂ O₃ . (C₃ H₆)₃)_x
 PCT Polyolefin, Polyvinyl

LC STN Files: CA, CAPLUS

CM 1

CRN 102-71-6

CMF C6 H15 N O3



CM 2

CRN 78537-82-3

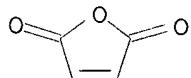
CMF (C4 H2 O3 . (C3 H6) 3) x

CCI PMS

CM 3

CRN 108-31-6

CMF C4 H2 O3



CM 4

CRN 13987-01-4

CMF (C3 H6) 3

CCI PMS

CM 5

CRN 115-07-1

CMF C3 H6

H₃C-CH=CH₂

1 REFERENCES IN FILE CA (1967 TO DATE)

1 REFERENCES IN FILE CAPLUS (1967 TO DATE)

REFERENCE 1: 95:101406

L89 ANSWER 119 OF 155 REGISTRY COPYRIGHT 2002 ACS

RN 77045-94-4 REGISTRY

CN 2-Butenedioic acid (2Z)-, polymer with 2-methyl-1-propene, potassium salt (9CI) (CA INDEX NAME)

OTHER CA INDEX NAMES:

CN 1-Propene, 2-methyl-, polymer with (2Z)-2-butenedioic acid, potassium salt (9CI)

CN 1-Propene, 2-methyl-, polymer with (Z)-2-butenedioic acid, potassium salt

CN 2-Butenedioic acid (2)-, polymer with 2-methyl-1-propene, potassium salt

FS STEREOSEARCH

MF (C4 H8 . C4 H4 O4)x . x K

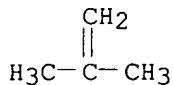
PCT Polyolefin, Polyvinyl
 LC STN Files: CA, CAPLUS

CM 1

CRN 28327-80-2
 CMF (C4 H8 . C4 H4 O4)x
 CCI PMS

CM 2

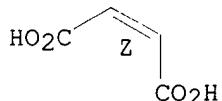
CRN 115-11-7
 CMF C4 H8



CM 3

CRN 110-16-7
 CMF C4 H4 O4

Double bond geometry as shown.



3 REFERENCES IN FILE CA (1967 TO DATE)
 3 REFERENCES IN FILE CAPLUS (1967 TO DATE)

REFERENCE 1: 112:38079

REFERENCE 2: 111:41540

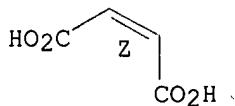
REFERENCE 3: 94:192796

L89 ANSWER 120 OF 155 REGISTRY COPYRIGHT 2002 ACS
 RN 76796-48-0 REGISTRY
 CN 2-Butenedioic acid (2Z)-, monosodium salt, polymer with 2-methyl-1-propene
 (9CI) (CA INDEX NAME)
 OTHER CA INDEX NAMES:
 CN 1-Propene, 2-methyl-, polymer with (Z)-sodium hydrogen 2-butenedioate
 (9CI)
 CN 2-Butenedioic acid (Z)-, monosodium salt, polymer with 2-methyl-1-propene
 FS STEREOSEARCH
 MF (C4 H8 . C4 H4 O4 . Na)x
 CI PMS
 PCT Polyolefin, Polyvinyl
 LC STN Files: CA, CAPLUS

CM 1

CRN 3105-55-3 (110-16-7)
 CMF C4 H4 O4 . Na

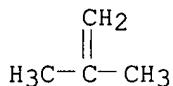
Double bond geometry as shown.



● Na

CM 2

CRN 115-11-7
CMF C4 H8



2 REFERENCES IN FILE CA (1967 TO DATE)
2 REFERENCES IN FILE CAPLUS (1967 TO DATE)

REFERENCE 1: 118:29891

REFERENCE 2: 94:112543

L89 ANSWER 121 OF 155 REGISTRY COPYRIGHT 2002 ACS
RN 76465-84-4 REGISTRY

CN 2,5-Furandione, polymer with 2-methyl-1-propene and 2,4,4-trimethylpentene, ammonium salt (9CI) (CA INDEX NAME)

OTHER CA INDEX NAMES:

CN 1-Propene, 2-methyl-, polymer with 2,5-furandione and 2,4,4-trimethylpentene, ammonium salt (9CI)

CN Pentene, 2,4,4-trimethyl-, polymer with 2,5-furandione and 2-methyl-1-propene, ammonium salt (9CI)

MF (C8 H16 . C4 H8 . C4 H2 O3)x . x H3 N

PCT Polyolefin, Polyether, Polyvinyl

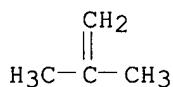
LC STN Files: CA, CAPLUS

CM 1

CRN 67669-76-5
CMF (C8 H16 . C4 H8 . C4 H2 O3)x
CCI PMS

CM 2

CRN 115-11-7
CMF C4 H8



CM 3

CRN 108-31-6
 CMF C4 H2 O3

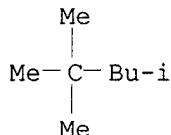


CM 4

CRN 25167-70-8
 CMF C8 H16
 CCI IDS

CM 5

CRN 540-84-1
 CMF C8 H18



1 REFERENCES IN FILE CA (1967 TO DATE)
 1 REFERENCES IN FILE CAPLUS (1967 TO DATE)

REFERENCE 1: 94:74760

L89 ANSWER 122 OF 155 REGISTRY COPYRIGHT 2002 ACS
 RN 71015-79-7 REGISTRY
 CN 1H-Pyrrole-2,5-dione, polymer with 2,5-furandione and 2-methyl-1-propene, ammonium salt (9CI) (CA INDEX NAME)

OTHER CA INDEX NAMES:

CN 1-Propene, 2-methyl-, polymer with 2,5-furandione and 1H-pyrrole-2,5-dione, ammonium salt (9CI)
 CN 2,5-Furandione, polymer with 2-methyl-1-propene and 1H-pyrrole-2,5-dione, ammonium salt (9CI)

OTHER NAMES:

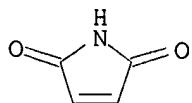
CN Isobutylene-maleic anhydride-maleimide copolymer ammonium salt
 MF (C4 H8 . C4 H3 N O2 . C4 H2 O3)x . x H3 N
 PCT Polyolefin, Polyvinyl
 LC STN Files: CA, CAPLUS

CM 1

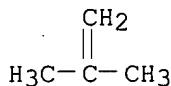
CRN 33154-82-4
 CMF (C4 H8 . C4 H3 N O2 . C4 H2 O3)x
 CCI PMS

CM 2

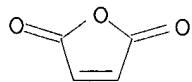
CRN 541-59-3
 CMF C4 H3 N O2



CM 3

CRN 115-11-7
CMF C4 H8

CM 4

CRN 108-31-6
CMF C4 H2 O32 REFERENCES IN FILE CA (1967 TO DATE)
2 REFERENCES IN FILE CAPLUS (1967 TO DATE)

REFERENCE 1: 103:38348

REFERENCE 2: 91:75311

L89 ANSWER 123 OF 155 REGISTRY COPYRIGHT 2002 ACS

RN 70739-68-3 REGISTRY

CN 1H-Pyrrole-2,5-dione, polymer with 2,5-furandione and 2-methyl-1-propene, sodium salt (9CI) (CA INDEX NAME)

OTHER CA INDEX NAMES:

CN 1-Propene, 2-methyl-, polymer with 2,5-furandione and 1H-pyrrole-2,5-dione, sodium salt (9CI)

CN 2,5-Furandione, polymer with 2-methyl-1-propene and 1H-pyrrole-2,5-dione, sodium salt (9CI)

MF (C4 H8 . C4 H3 N O2 . C4 H2 O3)x . x Na

PCT Polyolefin, Polyvinyl

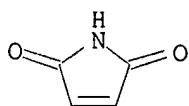
LC STN Files: CA, CAPLUS

CM 1

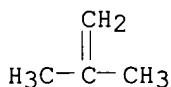
CRN 33154-82-4
CMF (C4 H8 . C4 H3 N O2 . C4 H2 O3)x
CCI PMS

CM 2

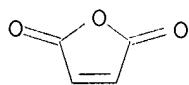
CRN 541-59-3
CMF C4 H3 N O2



CM 3

CRN 115-11-7
CMF C4 H8

CM 4

CRN 108-31-6
CMF C4 H2 O31 REFERENCES IN FILE CA (1967 TO DATE)
1 REFERENCES IN FILE CAPLUS (1967 TO DATE)

REFERENCE 1: 91:58132

L89 ANSWER 124 OF 155 REGISTRY COPYRIGHT 2002 ACS

RN 70595-19-6 REGISTRY

CN 2,5-Furandione, polymer with 2-methyl-1-propene, 2-ethylhexyl ester, ammonium salt (9CI) (CA INDEX NAME)

OTHER CA INDEX NAMES:

CN 1-Propene, 2-methyl-, polymer with 2,5-furandione, 2-ethylhexyl ester, ammonium salt (9CI)

OTHER NAMES:

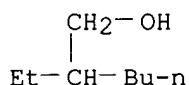
CN Isobutylene-maleic anhydride copolymer 2-ethylhexyl ester ammonium salt

MF C8 H18 O . x (C4 H8 . C4 H2 O3)x . x H3 N

PCT Polyolefin, Polyvinyl

LC STN Files: CA, CAPLUS

CM 1

CRN 104-76-7
CMF C8 H18 O

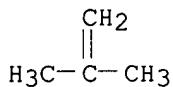
CM 2

CRN 26426-80-2

CMF (C₄ H₈ . C₄ H₂ O₃)_x
 CCI PMS

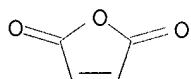
CM 3

CRN 115-11-7
 CMF C₄ H₈



CM 4

CRN 108-31-6
 CMF C₄ H₂ O₃



1 REFERENCES IN FILE CA (1967 TO DATE)
 1 REFERENCES IN FILE CAPLUS (1967 TO DATE)

REFERENCE 1: 91:41018

L89 ANSWER 125 OF 155 REGISTRY COPYRIGHT 2002 ACS
 RN 70595-18-5 REGISTRY
 CN 2,5-Furandione, polymer with 2-methyl-1-propene, 2-butoxyethyl ester, ammonium salt (9CI) (CA INDEX NAME)
 OTHER CA INDEX NAMES:
 CN 1-Propene, 2-methyl-, polymer with 2,5-furandione, 2-butoxyethyl ester, ammonium salt (9CI)
 OTHER NAMES:
 CN Isobutylene-maleic anhydride copolymer 2-butoxyethyl ester ammonium salt
 MF C₆ H₁₄ O₂ . x (C₄ H₈ . C₄ H₂ O₃)_x . x H₃ N
 PCT Polyolefin, Polyvinyl
 LC STN Files: CA, CAPLUS

CM 1

CRN 111-76-2
 CMF C₆ H₁₄ O₂

n-BuO-CH₂-CH₂-OH

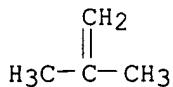
CM 2

CRN 26426-80-2
 CMF (C₄ H₈ . C₄ H₂ O₃)_x
 CCI PMS

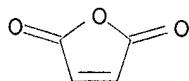
CM 3

CRN 115-11-7

CMF C4 H8



CM 4

CRN 108-31-6
CMF C4 H2 O31 REFERENCES IN FILE CA (1967 TO DATE)
1 REFERENCES IN FILE CAPLUS (1967 TO DATE)

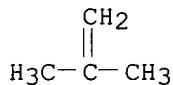
REFERENCE 1: 91:41018

L89 ANSWER 126 OF 155 REGISTRY COPYRIGHT 2002 ACS
 RN 69506-52-1 REGISTRY
 CN 2-Butenedioic acid (2Z)-, polymer with 2-methyl-1-propene, ammonium salt
 (9CI) (CA INDEX NAME)
 OTHER CA INDEX NAMES:
 CN 1-Propene, 2-methyl-, polymer with (2Z)-2-butenedioic acid, ammonium salt
 (9CI)
 CN 1-Propene, 2-methyl-, polymer with (Z)-2-butenedioic acid, ammonium salt
 CN 2-Butenedioic acid (Z)-, polymer with 2-methyl-1-propene, ammonium salt
 OTHER NAMES:
 CN Isobutylene-maleic acid copolymer ammonium salt
 FS STEREOSEARCH
 MF (C4 H8 . C4 H4 O4)x . x H3 N
 PCT Polyolefin, Polyvinyl
 LC STN Files: CA, CAPLUS, USPATFULL

CM 1

CRN 28327-80-2
CMF (C4 H8 . C4 H4 O4)x
CCI PMS

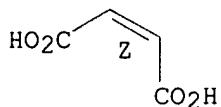
CM 2

CRN 115-11-7
CMF C4 H8

CM 3

CRN 110-16-7
CMF C4 H4 O4

Double bond geometry as shown.



6 REFERENCES IN FILE CA (1967 TO DATE)
 6 REFERENCES IN FILE CAPLUS (1967 TO DATE)

REFERENCE 1: 125:288875

REFERENCE 2: 121:191466

REFERENCE 3: 112:38079

REFERENCE 4: 111:216030

REFERENCE 5: 108:229742

REFERENCE 6: 90:138771

L89 ANSWER 127 OF 155 REGISTRY COPYRIGHT 2002 ACS

RN 68573-63-7 REGISTRY

CN 2,5-Furandione, polymer with 2-methyl-1-propene, potassium salt (9CI) (CA INDEX NAME)

OTHER CA INDEX NAMES:

CN 1-Propene, 2-methyl-, polymer with 2,5-furandione, potassium salt (9CI)

MF (C4 H8 . C4 H2 O3)x . x K

PCT Polyolefin, Polyvinyl

LC STN Files: CA, CAPLUS

CM 1

CRN 26426-80-2

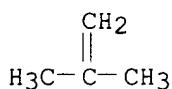
CMF (C4 H8 . C4 H2 O3)x

CCI PMS

CM 2

CRN 115-11-7

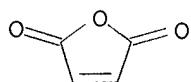
CMF C4 H8



CM 3

CRN 108-31-6

CMF C4 H2 O3



4 REFERENCES IN FILE CA (1967 TO DATE)
 4 REFERENCES IN FILE CAPLUS (1967 TO DATE)

REFERENCE 1: 109:195111

REFERENCE 2: 103:107497

REFERENCE 3: 102:15030

REFERENCE 4: 90:10314

L89 ANSWER 128 OF 155 REGISTRY COPYRIGHT 2002 ACS

RN 67298-43-5 REGISTRY

CN 2,5-Furandione, polymer with 2-methyl-1-propene, butyl ester, ammonium salt (9CI) (CA INDEX NAME)

OTHER CA INDEX NAMES:

CN 1-Propene, 2-methyl-, polymer with 2,5-furandione, butyl ester, ammonium salt (9CI)

MF C4 H10 O . x (C4 H8 . C4 H2 O3)x . x H3 N

PCT Polyolefin, Polyvinyl

LC STN Files: CA, CAPLUS

CM 1

CRN 71-36-3

CMF C4 H10 O

H₃C—CH₂—CH₂—CH₂—OH

CM 2

CRN 26426-80-2

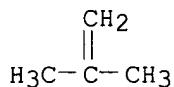
CMF (C4 H8 . C4 H2 O3)x

CCI PMS

CM 3

CRN 115-11-7

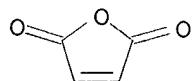
CMF C4 H8



CM 4

CRN 108-31-6

CMF C4 H2 O3



1 REFERENCES IN FILE CA (1967 TO DATE)

1 REFERENCES IN FILE CAPLUS (1967 TO DATE)

REFERENCE 1: 89:111734

L89 ANSWER 129 OF 155 REGISTRY COPYRIGHT 2002 ACS
 RN 65395-07-5 REGISTRY
 CN 2,5-Furandione, polymer with 2-methyl-1-propene, magnesium salt (9CI) (CA INDEX NAME)

OTHER CA INDEX NAMES:

CN 1-Propene, 2-methyl-, polymer with 2,5-furandione, magnesium salt (9CI)

OTHER NAMES:

CN Isobutylene-maleic anhydride copolymer magnesium salt

MF (C₄ H₈ . C₄ H₂ O₃)_x . x Mg

PCT Polyolefin, Polyvinyl

LC STN Files: CA, CAPLUS

CM 1

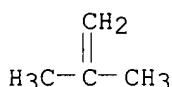
CRN 26426-80-2

CMF (C₄ H₈ . C₄ H₂ O₃)_x

CCI PMS

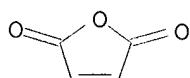
CM 2

CRN 115-11-7

CMF C₄ H₈

CM 3

CRN 108-31-6

CMF C₄ H₂ O₃

3 REFERENCES IN FILE CA (1967 TO DATE)

3 REFERENCES IN FILE CAPLUS (1967 TO DATE)

REFERENCE 1: 94:32542

REFERENCE 2: 92:219260

REFERENCE 3: 88:39081

L89 ANSWER 130 OF 155 REGISTRY COPYRIGHT 2002 ACS

RN 65395-06-4 REGISTRY

CN 2,5-Furandione, polymer with 1,3-butadiene and 2-methyl-1-propene, magnesium salt (9CI) (CA INDEX NAME)

OTHER CA INDEX NAMES:

CN 1,3-Butadiene, polymer with 2,5-furandione and 2-methyl-1-propene, magnesium salt (9CI)

CN 1-Propene, 2-methyl-, polymer with 1,3-butadiene and 2,5-furandione, magnesium salt (9CI)

MF (C₄ H₈ . C₄ H₆ . C₄ H₂ O₃)_x . x Mg

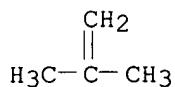
PCT Polyolefin, Polyvinyl
 LC STN Files: CA, CAPLUS

CM 1

CRN 33518-77-3
 CMF (C4 H8 . C4 H6 . C4 H2 O3)x
 CCI PMS

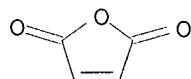
CM 2

CRN 115-11-7
 CMF C4 H8



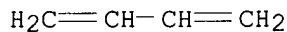
CM 3

CRN 108-31-6
 CMF C4 H2 O3



CM 4

CRN 106-99-0
 CMF C4 H6



1 REFERENCES IN FILE CA (1967 TO DATE)
 1 REFERENCES IN FILE CAPLUS (1967 TO DATE)

REFERENCE 1: 88:39081

L89 ANSWER 131 OF 155 REGISTRY COPYRIGHT 2002 ACS
 RN 64111-93-9 REGISTRY
 CN 2-Butenedioic acid, disodium salt, polymer with 2-methyl-1-propene (9CI)
 (CA INDEX NAME)
 OTHER CA INDEX NAMES:
 CN 1-Propene, 2-methyl-, polymer with disodium 2-butenedioate (9CI)
 MF (C4 H8 . C4 H4 O4 . 2 Na)x
 CI PMS
 PCT Polyolefin, Polyvinyl
 LC STN Files: CA, CAPLUS, USPATFULL

CM 1

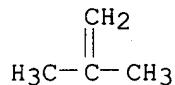
CRN 54060-75-2 (6915-18-0)
 CMF C4 H4 O4 . 2 Na



●2 Na

CM 2

CRN 115-11-7
CMF C4 H8



2 REFERENCES IN FILE CA (1967 TO DATE)
2 REFERENCES IN FILE CAPLUS (1967 TO DATE)

REFERENCE 1: 127:154576

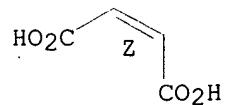
REFERENCE 2: 87:125349

L89 ANSWER 132 OF 155 REGISTRY COPYRIGHT 2002 ACS
 RN 63066-88-6 REGISTRY
 CN 2-Butenedioic acid (2Z)-, monoammonium salt, polymer with
 2-methyl-1-propene (9CI) (CA INDEX NAME)
 OTHER CA INDEX NAMES:
 CN 1-Propene, 2-methyl-, polymer with (Z)-ammonium hydrogen 2-butenedioate
 CN 1-Propene, 2-methyl-, polymer with ammonium hydrogen (2Z)-2-butenedioate
 (9CI)
 CN 2-Butenedioic acid (Z)-, monoammonium salt, polymer with
 2-methyl-1-propene
 OTHER NAMES:
 CN Ammonium maleate-isobutylene copolymer
 FS STEREOSEARCH
 MF (C4 H8 . C4 H4 O4 . H3 N)x
 CI PMS
 PCT Polyolefin, Polyvinyl
 LC STN Files: CA, CAPLUS, IFICDB, IFIPAT, IFIUDB, USPATFULL

CM 1

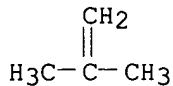
CRN 44742-89-4 (110-16-7)
CMF C4 H4 O4 . H3 N

Double bond geometry as shown.



NH3

CM 2

CRN 115-11-7
CMF C4 H83 REFERENCES IN FILE CA (1967 TO DATE)
3 REFERENCES IN FILE CAPLUS (1967 TO DATE)

REFERENCE 1: 133:81623

REFERENCE 2: 128:41646

REFERENCE 3: 87:24379

L89 ANSWER 133 OF 155 REGISTRY COPYRIGHT 2002 ACS

RN. 62066-58-4 REGISTRY

CN 2-Butenedioic acid (2Z)-, polymer with 1-propene, compd. with
2,2',2''-nitrilotris[ethanol], calcium sodium salt (9CI) (CA INDEX NAME)

OTHER CA INDEX NAMES:

CN 1-Propene, polymer with (2Z)-2-butenedioic acid, compd. with
2,2',2''-nitrilotris[ethanol], calcium sodium salt (9CI)CN 1-Propene, polymer with (Z)-2-butenedioic acid, compd. with
2,2',2''-nitrilotris[ethanol], calcium sodium saltCN 2-Butenedioic acid (Z)-, polymer with 1-propene, compd. with
2,2',2''-nitrilotris[ethanol], calcium sodium saltCN Ethanol, 2,2',2''-nitrilotris-, compd. with (2Z)-2-butenedioic acid
polymer with 1-propene, calcium sodium salt (9CI)CN Ethanol, 2,2',2''-nitrilotris-, compd. with (Z)-2-butenedioic acid polymer
with 1-propene, calcium sodium salt

OTHER NAMES:

CN Maleic acid-propylene copolymer calcium sodium triethanolamine salt

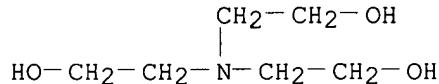
FS STEREOSEARCH

MF C6 H15 N O3 . x (C4 H4 O4 . C3 H6)x . x Ca . x Na

PCT Polyolefin, Polyvinyl

LC STN Files: CA, CAPLUS

CM 1

CRN 102-71-6
CMF C6 H15 N O3

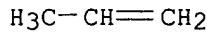
CM 2

CRN 38809-92-6
CMF (C4 H4 O4 . C3 H6)x
CCI PMS

CM 3

CRN 115-07-1

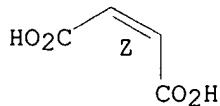
CMF C3 H6



CM 4

CRN 110-16-7
CMF C4 H4 O4

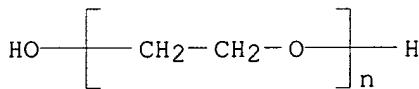
Double bond geometry as shown.

1 REFERENCES IN FILE CA (1967 TO DATE)
1 REFERENCES IN FILE CAPLUS (1967 TO DATE)

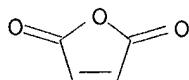
REFERENCE 1: 86:123123

L89 ANSWER 134 OF 155 REGISTRY COPYRIGHT 2002 ACS
 RN 61577-20-6 REGISTRY
 CN 2,5-Furandione, polymer with ethene and .alpha.-hydro-.omega.-hydroxypoly(oxy-1,2-ethanediyl) (9CI) (CA INDEX NAME)
 OTHER CA INDEX NAMES:
 CN Ethene, polymer with 2,5-furandione and .alpha.-hydro-.omega.-hydroxypoly(oxy-1,2-ethanediyl) (9CI)
 CN Poly(oxy-1,2-ethanediyl), .alpha.-hydro-.omega.-hydroxy-, polymer with ethene and 2,5-furandione (9CI)
 MF (C4 H2 O3 . (C2 H4 O)n H2 O . C2 H4)x
 CI PMS
 PCT Polyester, Polyester formed, Polyether, Polyolefin, Polyvinyl
 LC STN Files: CA, CAPLUS, IFICDB, IFIPAT, IFIUDB, USPATFULL

CM 1

CRN 25322-68-3
CMF (C2 H4 O)n H2 O
CCI PMS

CM 2

CRN 108-31-6
CMF C4 H2 O3

CM 3

CRN 74-85-1
CMF C2 H4 $\text{H}_2\text{C}=\text{CH}_2$ 2 REFERENCES IN FILE CA (1967 TO DATE)
2 REFERENCES IN FILE CAPLUS (1967 TO DATE)

REFERENCE 1: 101:92327

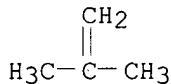
REFERENCE 2: 86:30513

L89 ANSWER 135 OF 155 REGISTRY COPYRIGHT 2002 ACS
 RN 61389-90-0 REGISTRY
 CN 2-Propenamide, N,N'-methylenebis-, polymer with 2,5-furandione and
 2-methyl-1-propene, ammonium salt (9CI) (CA INDEX NAME)
 OTHER CA INDEX NAMES:
 CN 1-Propene, 2-methyl-, polymer with 2,5-furandione and N,N'-methylenebis[2-
 propenamide], ammonium salt (9CI)
 CN 2,5-Furandione, polymer with N,N'-methylenebis[2-propenamide] and
 2-methyl-1-propene, ammonium salt (9CI)
 MF (C7 H10 N2 O2 . C4 H8 . C4 H2 O3)x . x H3 N
 PCT Polyacrylic, Polyolefin, Polyvinyl
 LC STN Files: CA, CAPLUS, IFICDB, IFIPAT, IFIUDB, USPATFULL

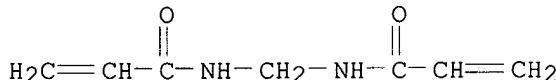
CM 1

CRN 61389-89-7
CMF (C7 H10 N2 O2 . C4 H8 . C4 H2 O3)x
CCI PMS

CM 2

CRN 115-11-7
CMF C4 H8

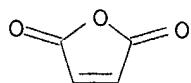
CM 3

CRN 110-26-9
CMF C7 H10 N2 O2

CM 4

CRN 108-31-6

CMF C4 H2 O3



1 REFERENCES IN FILE CA (1967 TO DATE)
 1 REFERENCES IN FILE CAPLUS (1967 TO DATE)

REFERENCE 1: 86:18677

L89 ANSWER 136 OF 155 REGISTRY COPYRIGHT 2002 ACS
 RN 60098-62-6 REGISTRY
 CN 2-Butenedioic acid (2Z)-, polymer with 2-methyl-1-propene, octyl ester,
 lithium salt (9CI) (CA INDEX NAME)
 OTHER CA INDEX NAMES:
 CN 1-Propene, 2-methyl-, polymer with (2Z)-2-butenedioic acid, octyl ester,
 lithium salt (9CI)
 CN 1-Propene, 2-methyl-, polymer with (Z)-2-butenedioic acid, octyl ester,
 lithium salt
 CN 2-Butenedioic acid (Z)-, polymer with 2-methyl-1-propene, octyl ester,
 lithium salt
 FS STEREOSEARCH
 MF C8 H18 O . x (C4 H8 . C4 H4 O4)x . x Li
 PCT Polyolefin, Polyvinyl
 LC STN Files: CA, CAPLUS, TOXCENTER

CM 1

CRN 111-87-5
 CMF C8 H18 O

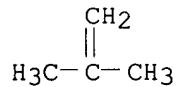
HO—(CH₂)₇—Me

CM 2

CRN 28327-80-2
 CMF (C4 H8 . C4 H4 O4)x
 CCI PMS

CM 3

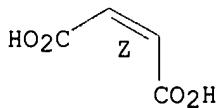
CRN 115-11-7
 CMF C4 H8



CM 4

CRN 110-16-7
 CMF C4 H4 O4

Double bond geometry as shown.



1 REFERENCES IN FILE CA (1967 TO DATE)
 1 REFERENCES IN FILE CAPLUS (1967 TO DATE)

REFERENCE 1: 85:95720

L89 ANSWER 137 OF 155 REGISTRY COPYRIGHT 2002 ACS
 RN 60098-61-5 REGISTRY
 CN 2-Butenedioic acid (2Z)-, polymer with 2-methyl-1-propene, methyl ester, sodium salt (9CI) (CA INDEX NAME)
 OTHER CA INDEX NAMES:
 CN 1-Propene, 2-methyl-, polymer with (2Z)-2-butenedioic acid, methyl ester, sodium salt (9CI)
 CN 1-Propene, 2-methyl-, polymer with (Z)-2-butenedioic acid, methyl ester, sodium salt
 CN 2-Butenedioic acid (Z)-, polymer with 2-methyl-1-propene, methyl ester, sodium salt
 FS STEREOSEARCH
 MF (C4 H8 . C4 H4 O4)x . x C H4 O . x Na
 PCT Polyolefin, Polyvinyl
 LC STN Files: CA, CAPLUS, TOXCENTER

CM 1

CRN 67-56-1
 CMF C H4 O

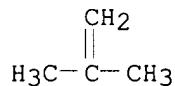
H₃C-OH

CM 2

CRN 28327-80-2
 CMF (C4 H8 . C4 H4 O4)x
 CCI PMS

CM 3

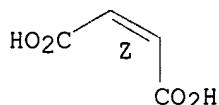
CRN 115-11-7
 CMF C4 H8



CM 4

CRN 110-16-7
 CMF C4 H4 O4

Double bond geometry as shown.



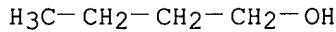
1 REFERENCES IN FILE CA (1967 TO DATE)
 1 REFERENCES IN FILE CAPLUS (1967 TO DATE)

REFERENCE 1: 85:95720

L89 ANSWER 138 OF 155 REGISTRY COPYRIGHT 2002 ACS
 RN 60098-60-4 REGISTRY
 CN 2-Butenedioic acid (2Z)-, polymer with 2-methyl-1-propene, butyl ester, ammonium salt (9CI) (CA INDEX NAME)
 OTHER CA INDEX NAMES:
 CN 1-Propene, 2-methyl-, polymer with (2Z)-2-butenedioic acid, butyl ester, ammonium salt (9CI)
 CN 1-Propene, 2-methyl-, polymer with (Z)-2-butenedioic acid, butyl ester, ammonium salt
 CN 2-Butenedioic acid (Z)-, polymer with 2-methyl-1-propene, butyl ester, ammonium salt
 FS STEREOSEARCH
 MF C4 H10 O . x (C4 H8 . C4 H4 O4)x . x H3 N
 PCT Polyolefin, Polyvinyl
 LC STN Files: CA, CAPLUS, TOXCENTER

CM 1

CRN 71-36-3
 CMF C4 H10 O

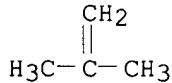


CM 2

CRN 28327-80-2
 CMF (C4 H8 . C4 H4 O4)x
 CCI PMS

CM 3

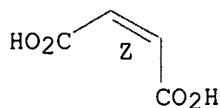
CRN 115-11-7
 CMF C4 H8



CM 4

CRN 110-16-7
 CMF C4 H4 O4

Double bond geometry as shown.



1 REFERENCES IN FILE CA (1967 TO DATE)
 1 REFERENCES IN FILE CAPLUS (1967 TO DATE)

REFERENCE 1: 85:95720

L89 ANSWER 139 OF 155 REGISTRY COPYRIGHT 2002 ACS

RN 59931-03-2 REGISTRY

CN 2,5-Furandione, polymer with 2-methyl-1-propene trimer (9CI) (CA INDEX NAME)

OTHER CA INDEX NAMES:

CN 1-Propene, 2-methyl-, trimer, polymer with 2,5-furandione (9CI)

OTHER NAMES:

CN Maleic anhydride-triisobutylene copolymer

MF $(C_4 H_8)_3 \cdot C_4 H_2 O_3 \times$

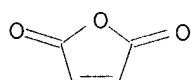
CI PMS

PCT Polyolefin, Polyvinyl

CM 1

CRN 108-31-6

CMF C4 H2 O3



CM 2

CRN 7756-94-7

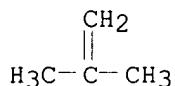
CMF (C4 H8)3

CCI PMS

CM 3

CRN 115-11-7

CMF C4 H8



L89 ANSWER 140 OF 155 REGISTRY COPYRIGHT 2002 ACS

RN 55199-87-6 REGISTRY

CN 2,5-Furandione, polymer with 2-methyl-1-propene, methyl ester, sodium salt (9CI) (CA INDEX NAME)

OTHER CA INDEX NAMES:

CN 1-Propene, 2-methyl-, polymer with 2,5-furandione, methyl ester, sodium salt (9CI)

MF $(C_4 H_8 \cdot C_4 H_2 O_3 \times \cdot x C H_4 O \cdot x Na$

PCT Polyolefin, Polyvinyl

LC STN Files: CA, CAPLUS, IFICDB, IFIPAT, IFIUDB, USPATFULL

CM 1

CRN 67-56-1
CMF C H4 O

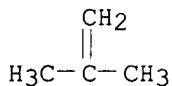
H₃C-OH

CM 2

CRN 26426-80-2
CMF (C₄ H₈ . C₄ H₂ O₃)_x
CCI PMS

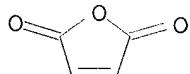
CM 3

CRN 115-11-7
CMF C₄ H₈



CM 4

CRN 108-31-6
CMF C₄ H₂ O₃



4 REFERENCES IN FILE CA (1967 TO DATE)
4 REFERENCES IN FILE CAPLUS (1967 TO DATE)

REFERENCE 1: 117:71330

REFERENCE 2: 87:152946

REFERENCE 3: 85:125304

REFERENCE 4: 82:141102

L89 ANSWER 141 OF 155 REGISTRY COPYRIGHT 2002 ACS

RN 55031-88-4 REGISTRY

CN 2-Butenedioic acid (2Z)-, disodium salt, polymer with 2-methyl-1-propene
(9CI) (CA INDEX NAME)

OTHER CA INDEX NAMES:

CN 1-Propene, 2-methyl-, polymer with (Z)-disodium 2-butenedioate

CN 1-Propene, 2-methyl-, polymer with disodium (2Z)-2-butenedioate (9CI)

CN 2-Butenedioic acid (Z)-, disodium salt, polymer with 2-methyl-1-propene

OTHER NAMES:

CN Isobutylene-disodium maleate polymer

CN Isobutylene-sodium maleate copolymer

FS STEREOSEARCH
 MF (C4 H8 . C4 H4 O4 . 2 Na)x

CI PMS

PCT Polyolefin, Polyvinyl

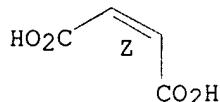
LC STN Files: CA, CAPLUS, CHEMLIST, IFICDB, IFIPAT, IFIUDB, USPATFULL

CM 1

CRN 371-47-1 (110-16-7)

CMF C4 H4 O4 . 2 Na

Double bond geometry as shown.

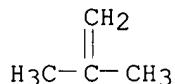


●2 Na

CM 2

CRN 115-11-7

CMF C4 H8



14 REFERENCES IN FILE CA (1967 TO DATE)
 2 REFERENCES TO NON-SPECIFIC DERIVATIVES IN FILE CA
 14 REFERENCES IN FILE CAPLUS (1967 TO DATE)

REFERENCE 1: 136:136641

REFERENCE 2: 135:79424

REFERENCE 3: 128:142133

REFERENCE 4: 127:235760

REFERENCE 5: 127:150291

REFERENCE 6: 124:297174

REFERENCE 7: 124:291656

REFERENCE 8: 122:316418

REFERENCE 9: 122:197069

REFERENCE 10: 121:141775

L89 ANSWER 142 OF 155 REGISTRY COPYRIGHT 2002 ACS

RN 54538-68-0 REGISTRY

CN 2,5-Furandione, polymer with 1,3-butadiene and 2-methyl-1-propene, ammonium salt (9CI) (CA INDEX NAME)

OTHER CA INDEX NAMES:

CN 1,3-Butadiene, polymer with 2,5-furandione and 2-methyl-1-propene, ammonium salt (9CI)
 CN 1-Propene, 2-methyl-, polymer with 1,3-butadiene and 2,5-furandione, ammonium salt (9CI)

OTHER NAMES:

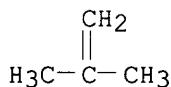
CN Butadiene-isobutene-maleic anhydride copolymer ammonium salt
 MF (C₄ H₈ . C₄ H₆ . C₄ H₂ O₃)_x . x H₃ N
 PCT Polyolefin, Polyvinyl
 LC STN Files: CA, CAPLUS

CM 1

CRN 33518-77-3
 CMF (C₄ H₈ . C₄ H₆ . C₄ H₂ O₃)_x
 CCI PMS

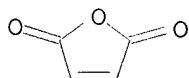
CM 2

CRN 115-11-7
 CMF C₄ H₈



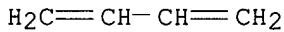
CM 3

CRN 108-31-6
 CMF C₄ H₂ O₃



CM 4

CRN 106-99-0
 CMF C₄ H₆



1 REFERENCES IN FILE CA (1967 TO DATE)
 1 REFERENCES IN FILE CAPLUS (1967 TO DATE)

REFERENCE 1: 82:113427

L89 ANSWER 143 OF 155 REGISTRY COPYRIGHT 2002 ACS
 RN 54452-28-7 REGISTRY

CN 2,5-Furandione, polymer with 2-methyl-1,3-butadiene and 2-methyl-1-propene, ammonium salt (9CI) (CA INDEX NAME)

OTHER CA INDEX NAMES:

CN 1,3-Butadiene, 2-methyl-, polymer with 2,5-furandione and 2-methyl-1-propene, ammonium salt (9CI)
 CN 1-Propene, 2-methyl-, polymer with 2,5-furandione and 2-methyl-1,3-

butadiene, ammonium salt (9CI)

OTHER NAMES:

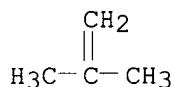
CN Isobutene-isoprene-maleic anhydride copolymer ammonium salt
 MF (C₅ H₈ . C₄ H₈ . C₄ H₂ O₃)_x . x H₃ N
 PCT Polyolefin, Polyvinyl
 LC STN Files: CA, CAPLUS

CM 1

CRN 35502-98-8
 CMF (C₅ H₈ . C₄ H₈ . C₄ H₂ O₃)_x
 CCI PMS

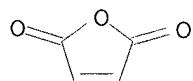
CM 2

CRN 115-11-7
 CMF C₄ H₈



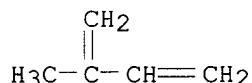
CM 3

CRN 108-31-6
 CMF C₄ H₂ O₃



CM 4

CRN 78-79-5
 CMF C₅ H₈



1 REFERENCES IN FILE CA (1967 TO DATE)
 1 REFERENCES IN FILE CAPLUS (1967 TO DATE)

REFERENCE 1: 82:113427

L89 ANSWER 144 OF 155 REGISTRY COPYRIGHT 2002 ACS
 RN 54406-39-2 REGISTRY
 CN 2-Propenoic acid, 2-methyl-, polymer with 2-methyl-1-propene (9CI) (CA INDEX NAME)

OTHER CA INDEX NAMES:

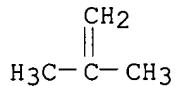
CN 1-Propene, 2-methyl-, polymer with 2-methyl-2-propenoic acid (9CI)
 OTHER NAMES:

CN Isobutene-methacrylic acid polymer
 CN Isobutylene-methacrylic acid copolymer
 MF (C₄ H₈ . C₄ H₆ O₂)_x

CI PMS, COM
 PCT Polyacrylic, Polyolefin
 LC STN Files: CA, CAPLUS, USPATFULL

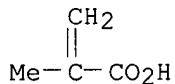
CM 1

CRN 115-11-7
 CMF C4 H8



CM 2

CRN 79-41-4
 CMF C4 H6 O2



4 REFERENCES IN FILE CA (1967 TO DATE)
 4 REFERENCES IN FILE CAPLUS (1967 TO DATE)

REFERENCE 1: 133:296973

REFERENCE 2: 129:293780

REFERENCE 3: 105:88692

REFERENCE 4: 100:140955

L89 ANSWER 145 OF 155 REGISTRY COPYRIGHT 2002 ACS

RN 52032-17-4 REGISTRY

CN 2,5-Furandione, polymer with 2-methyl-1-propene, ammonium salt (9CI) (CA INDEX NAME)

OTHER CA INDEX NAMES:

CN 1-Propene, 2-methyl-, polymer with 2,5-furandione, ammonium salt (9CI)

OTHER NAMES:

CN Isobam 104

CN Isobam 110

CN Isobutene-maleic anhydride copolymer ammonium salt

CN Isobutene-maleic anhydride polymer ammonium salt

CN Isobutylene-maleic anhydride copolymer ammonium salt

CN Isobutylene-maleic anhydride polymer ammonium salt

MF (C4 H8 . C4 H2 O3)x . x H3 N

PCT Polyolefin, Polyvinyl

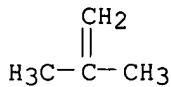
LC STN Files: CA, CAPLUS, CHEMCATS, IFICDB, IFIPAT, IFIUDB, TOXCENTER, USPATFULL

CM 1

CRN 26426-80-2
 CMF (C4 H8 . C4 H2 O3)x
 CCI PMS

CM 2

CRN 115-11-7
CMF C4 H8



CM 3

CRN 108-31-6
CMF C4 H2 O3



129 REFERENCES IN FILE CA (1967 TO DATE)
8 REFERENCES TO NON-SPECIFIC DERIVATIVES IN FILE CA
129 REFERENCES IN FILE CAPLUS (1967 TO DATE)

REFERENCE 1: 137:109988

REFERENCE 2: 135:319720

REFERENCE 3: 134:374103

REFERENCE 4: 134:359566

REFERENCE 5: 134:245284

REFERENCE 6: 134:87972

REFERENCE 7: 134:73311

REFERENCE 8: 134:6843

REFERENCE 9: 133:297491

REFERENCE 10: 133:226672

L89 ANSWER 146 OF 155 REGISTRY COPYRIGHT 2002 ACS

RN 51772-79-3 REGISTRY

CN 2-Butenedioic acid (2Z)-, polymer with 2-methyl-1-propene, copper(2+) salt
(9CI) (CA INDEX NAME)

OTHER CA INDEX NAMES:

CN 1-Propene, 2-methyl-, polymer with (2Z)-2-butenedioic acid, copper(2+) salt
(9CI)

CN 1-Propene, 2-methyl-, polymer with (Z)-2-butenedioic acid, copper(2+) salt

CN 2-Butenedioic acid (Z)-, polymer with 2-methyl-1-propene, copper(2+) salt

OTHER NAMES:

CN Maleic acid-isobutylene polymer copper(II) salt

FS STEREOSEARCH

MF (C4 H8 . C4 H4 O4)x . x Cu

PCT Polyolefin, Polyvinyl

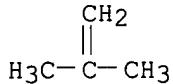
LC STN Files: CA, CAPLUS

CM 1

CRN 28327-80-2
 CMF (C₄ H₈ . C₄ H₄ O₄)_x
 CCI PMS

CM 2

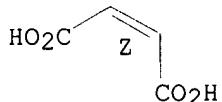
CRN 115-11-7
 CMF C₄ H₈



CM 3

CRN 110-16-7
 CMF C₄ H₄ O₄

Double bond geometry as shown.



1 REFERENCES IN FILE CA (1967 TO DATE)
 1 REFERENCES IN FILE CAPLUS (1967 TO DATE)

REFERENCE 1: 81:26139

L89 ANSWER 147 OF 155 REGISTRY COPYRIGHT 2002 ACS
 RN 39612-00-5 REGISTRY
 CN 2,5-Furandione, polymer with 2-methyl-1-propene, sodium salt (9CI) (CA INDEX NAME)

OTHER CA INDEX NAMES:

CN 1-Propene, 2-methyl-, polymer with 2,5-furandione, sodium salt (9CI)

OTHER NAMES:

CN Isobutene-maleic anhydride copolymer sodium salt

CN Isobutene-maleic anhydride polymer sodium salt

CN Isobutylene-maleic anhydride copolymer sodium salt

CN KI Gel 210K-F2

DR 110650-70-9

MF (C₄ H₈ . C₄ H₂ O₃)_x . x Na

PCT Polyolefin, Polyvinyl

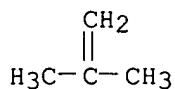
LC STN Files: CA, CAPLUS, CHEMCATS, CHEMLIST, CSCHEM, IFICDB, IFIPAT, IFIUDB, TOXCENTER, USPATFULL

CM 1

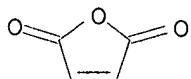
CRN 26426-80-2
 CMF (C₄ H₈ . C₄ H₂ O₃)_x
 CCI PMS

CM 2

CRN 115-11-7
 CMF C₄ H₈



CM 3

CRN 108-31-6
CMF C4 H2 O3

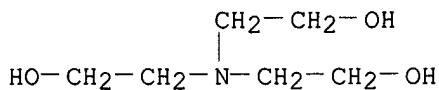
114 REFERENCES IN FILE CA (1967 TO DATE)
 9 REFERENCES TO NON-SPECIFIC DERIVATIVES IN FILE CA
 114 REFERENCES IN FILE CAPLUS (1967 TO DATE)

REFERENCE 1: 137:34605
 REFERENCE 2: 136:387540
 REFERENCE 3: 136:387536
 REFERENCE 4: 133:297491
 REFERENCE 5: 133:225428
 REFERENCE 6: 133:224468
 REFERENCE 7: 133:139952
 REFERENCE 8: 133:116175
 REFERENCE 9: 132:94365
 REFERENCE 10: 131:244758

L89 ANSWER 148 OF 155 REGISTRY COPYRIGHT 2002 ACS
 RN 38531-22-5 REGISTRY
 CN 2-Propenoic acid, polymer with ethene, compd. with 2,2',2'''-nitrilotris[ethanol] (9CI) (CA INDEX NAME)
 OTHER CA INDEX NAMES:
 CN Ethanol, 2,2',2'''-nitrilotris-, compd. with ethene polymer with 2-propenoic acid (9CI)
 CN Ethene, polymer with 2-propenoic acid, compd. with 2,2',2'''-nitrilotris[ethanol] (9CI)
 OTHER NAMES:
 CN Acrylic acid-ethylene copolymer triethanolamine salt
 CN Acrylic acid-ethylene polymer triethanolamine salt
 DR 129022-19-1
 MF C6 H15 N O3 . x (C3 H4 O2 . C2 H4)x
 PCT Polyacrylic, Polyolefin
 LC STN Files: CA, CAPLUS, IFICDB, IFIPAT, IFIUDB, USPATFULL

CM 1

CRN 102-71-6
CMF C6 H15 N O3

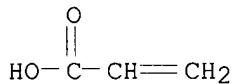


CM 2

CRN 9010-77-9
 CMF (C₃ H₄ O₂ . C₂ H₄)_x
 CCI PMS

CM 3

CRN 79-10-7
 CMF C₃ H₄ O₂



CM 4

CRN 74-85-1
 CMF C₂ H₄



7 REFERENCES IN FILE CA (1967 TO DATE)
 7 REFERENCES IN FILE CAPLUS (1967 TO DATE)

REFERENCE 1: 132:37070

REFERENCE 2: 131:185986

REFERENCE 3: 119:205525

REFERENCE 4: 119:10091

REFERENCE 5: 113:98731

REFERENCE 6: 106:121527

REFERENCE 7: 77:50355

L89 ANSWER 149 OF 155 REGISTRY COPYRIGHT 2002 ACS

RN 38531-17-8 REGISTRY

CN 2-Propenoic acid, polymer with ethene, compd. with 2-(diethylamino)ethanol (9CI) (CA INDEX NAME)

OTHER CA INDEX NAMES:

CN Ethanol, 2-(diethylamino)-, compd. with ethene polymer with 2-propenoic acid (9CI)

CN Ethene, polymer with 2-propenoic acid, compd. with 2-(diethylamino)ethanol (9CI)

OTHER NAMES:

CN Acrylic acid-ethylene copolymer N,N-diethylethanolamine salt

MF C6 H15 N O . x (C3 H4 O2 . C2 H4)x
 PCT Polyacrylic, Polyolefin
 LC STN Files: CA, CAPLUS, CHEMLIST, IFICDB, IFIPAT, IFIUDB, USPATFULL
 Other Sources: NDSL**, TSCA**
 (**Enter CHEMLIST File for up-to-date regulatory information)

CM 1

CRN 100-37-8
 CMF C6 H15 N O

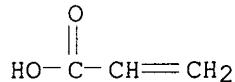
Et₂N-CH₂-CH₂-OH

CM 2

CRN 9010-77-9
 CMF (C3 H4 O2 . C2 H4)x
 CCI PMS

CM 3

CRN 79-10-7
 CMF C3 H4 O2



CM 4

CRN 74-85-1
 CMF C2 H4

H₂C=CH₂

3 REFERENCES IN FILE CA (1967 TO DATE)
 3 REFERENCES IN FILE CAPLUS (1967 TO DATE)

REFERENCE 1: 106:121527

REFERENCE 2: 106:68842

REFERENCE 3: 77:50355

L89 ANSWER 150 OF 155 REGISTRY COPYRIGHT 2002 ACS
 RN 35528-36-0 REGISTRY
 CN 2-Propenoic acid, 2-methyl-, polymer with ethene and oxirane (9CI) (CA INDEX NAME)

OTHER CA INDEX NAMES:

CN Ethene, polymer with 2-methyl-2-propenoic acid and oxirane (9CI)
 CN Oxirane, polymer with ethene and 2-methyl-2-propenoic acid (9CI)

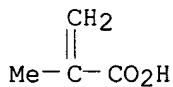
OTHER NAMES:

CN Ethylene-ethylene oxide-methacrylic acid polymer
 MF (C4 H6 O2 . C2 H4 O . C2 H4)x
 CI PMS

PCT Polyacrylic, Polyether, Polyether formed, Polyolefin
 LC STN Files: CA, CAPLUS

CM 1

CRN 79-41-4
 CMF C4 H6 O2



CM 2

CRN 75-21-8
 CMF C2 H4 O



CM 3

CRN 74-85-1
 CMF C2 H4



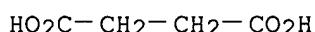
1 REFERENCES IN FILE CA (1967 TO DATE)
 1 REFERENCES IN FILE CAPLUS (1967 TO DATE)

REFERENCE 1: 76:73031

L89 ANSWER 151 OF 155 REGISTRY COPYRIGHT 2002 ACS
 RN 31904-94-6 REGISTRY
 CN Butanedioic acid, polymer with 1,2,3-propanetriol and 2-propenoic acid
 (9CI) (CA INDEX NAME)
 OTHER CA INDEX NAMES:
 CN 1,2,3-Propanetriol, polymer with butanedioic acid and 2-propenoic acid
 (9CI)
 CN 2-Propenoic acid, polymer with butanedioic acid and 1,2,3-propanetriol
 (9CI)
 CN Succinic acid, polyester with acrylic acid and glycerol (8CI)
 OTHER NAMES:
 CN Glycerine diacrylate succinate
 MF (C4 H6 O4 . C3 H8 O3 . C3 H4 O2)x
 CI PMS
 PCT Polyacrylic, Polyester, Polyester formed
 LC STN Files: CA, CAPLUS, IFICDB, IFIPAT, IFIUDB

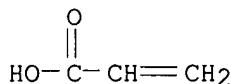
CM 1

CRN 110-15-6
 CMF C4 H6 O4



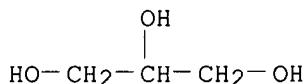
CM 2

CRN 79-10-7
 CMF C3 H4 O2



CM 3

CRN 56-81-5
 CMF C3 H8 O3



2 REFERENCES IN FILE CA (1967 TO DATE)
 2 REFERENCES IN FILE CAPLUS (1967 TO DATE)

REFERENCE 1: 76:101346

REFERENCE 2: 74:88758

L89 ANSWER 152 OF 155 REGISTRY COPYRIGHT 2002 ACS

RN 30915-64-1 REGISTRY

CN 2-Butenedioic acid (2Z)-, polymer with 2-methyl-1-propene, sodium salt
 (9CI) (CA INDEX NAME)

OTHER CA INDEX NAMES:

CN 1-Propene, 2-methyl-, polymer with (2Z)-2-butenedioic acid, sodium salt
 (9CI)

CN 1-Propene, 2-methyl-, polymer with (Z)-2-butenedioic acid, sodium salt

CN 2-Butenedioic acid (Z)-, polymer with 2-methyl-1-propene, sodium salt

CN Maleic acid, polymer with 2-methylpropene, sodium salt (8CI)

OTHER NAMES:

CN Isobutene-maleic acid copolymer sodium salt

CN Isobutylene-maleic acid copolymer sodium salt

CN Polystar OMR

FS STEREOSEARCH

DR 110864-53-4

MF (C4 H8 . C4 H4 O4)x . x Na

PCT Polyolefin, Polyvinyl

LC STN Files: CA, CAPLUS, IFICDB, IFIPAT, IFIUDB, TOXCENTER, USPATFULL

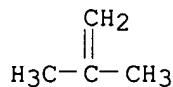
CM 1

CRN 28327-80-2
 CMF (C4 H8 . C4 H4 O4)x
 CCI PMS

CM 2

CRN 115-11-7

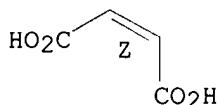
CMF C4 H8



CM 3

CRN 110-16-7
CMF C4 H4 O4

Double bond geometry as shown.



39 REFERENCES IN FILE CA (1967 TO DATE)
 2 REFERENCES TO NON-SPECIFIC DERIVATIVES IN FILE CA
 39 REFERENCES IN FILE CAPLUS (1967 TO DATE)

REFERENCE 1: 137:142221

REFERENCE 2: 133:256547

REFERENCE 3: 128:220860

REFERENCE 4: 128:105437

REFERENCE 5: 127:308661

REFERENCE 6: 125:307338

REFERENCE 7: 124:95603

REFERENCE 8: 116:230204

REFERENCE 9: 115:186619

REFERENCE 10: 115:116846

L89 ANSWER 153 OF 155 REGISTRY COPYRIGHT 2002 ACS

RN 28327-80-2 REGISTRY

CN 2-Butenedioic acid (2Z)-, polymer with 2-methyl-1-propene (9CI) (CA INDEX NAME)

OTHER CA INDEX NAMES:

CN 1-Propene, 2-methyl-, polymer with (2Z)-2-butenedioic acid (9CI)

CN 1-Propene, 2-methyl-, polymer with (Z)-2-butenedioic acid

CN 2-Butenedioic acid (Z)-, polymer with 2-methyl-1-propene

CN Maleic acid, polymer with 2-methylpropene (8CI)

CN Propene, 2-methyl-, polymer with maleic acid (8CI)

OTHER NAMES:

CN Isobutene-maleic acid copolymer

CN Isobutene-maleic acid polymer

CN Isobutylene-maleic acid copolymer

CN Isobutylene-maleic acid polymer

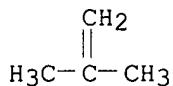
CN KI 210

CN Maleic acid-isobutene copolymer

CN Maleic acid-isobutene polymer
 CN Maleic acid-isobutylene copolymer
 CN Maleic acid-isobutylene polymer
 FS STEREOSEARCH
 DR 77045-93-3
 MF (C4 H8 . C4 H4 O4)x
 CI PMS, COM
 PCT Polyolefin, Polyvinyl
 LC STN Files: CA, CAPLUS, IFICDB, IFIPAT, IFIUDB, TOXCENTER, USPATFULL

CM 1

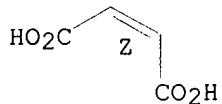
CRN 115-11-7
 CMF C4 H8



CM 2

CRN 110-16-7
 CMF C4 H4 O4

Double bond geometry as shown.



135 REFERENCES IN FILE CA (1967 TO DATE)
 16 REFERENCES TO NON-SPECIFIC DERIVATIVES IN FILE CA
 135 REFERENCES IN FILE CAPLUS (1967 TO DATE)

REFERENCE 1: 136:387626

REFERENCE 2: 136:281959

REFERENCE 3: 135:181524

REFERENCE 4: 135:181502

REFERENCE 5: 135:66063

REFERENCE 6: 134:180345

REFERENCE 7: 134:166268

REFERENCE 8: 134:149334

REFERENCE 9: 133:283717

REFERENCE 10: 133:218842

L89 ANSWER 154 OF 155 REGISTRY COPYRIGHT 2002 ACS

RN 26426-80-2 REGISTRY

CN 2,5-Furandione, polymer with 2-methyl-1-propene (9CI) (CA INDEX NAME)
 OTHER CA INDEX NAMES:

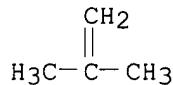
CN 1-Propene, 2-methyl-, polymer with 2,5-furandione (9CI)
 CN Maleic anhydride, polymer with 2-methylpropene (8CI)
 CN Propene, 2-methyl-, polymer with maleic anhydride (8CI)

OTHER NAMES:

CN BM 30AE20
 CN Fibersorb SA 7200H
 CN IB 6
 CN Isobam
 CN Isobam 01
 CN Isobam 04
 CN Isobam 06
 CN Isobam 18
 CN Isobam 304D
 CN Isobam 600
 CN Isobam HH
 CN Isobutene-maleic anhydride copolymer
 CN Isobutene-maleic anhydride polymer
 CN Isobutylene-maleic acid anhydride copolymer
 CN Isobutylene-maleic anhydride copolymer
 CN Isobutylene-maleic anhydride polymer
 CN KI Gel
 CN KI Gel 20
 CN KI Gel 201K-F2
 CN KI Gel 201K-F3
 CN KI Gel 201K-F40
 CN KI Gel 210K
 CN KI Gel F 3
 CN Kuratack 110
 CN Maleic anhydride-isobutene copolymer
 CN Maleic anhydride-isobutylene copolymer
 CN PE 60
 CN T 731
 DR 97048-07-2, 110650-69-6
 MF (C4 H8 . C4 H2 O3)x
 CI PMS, COM
 PCT Polyolefin, Polyvinyl
 LC STN Files: BIOSIS, CA, CAPLUS, CHEMCATS, CHEMLIST, CIN, IFICDB, IFIPAT,
 IFIUDB, MEDLINE, PROMT, TOXCENTER, USPAT2, USPATFULL
 Other Sources: DSL**, TSCA**
 (**Enter CHEMLIST File for up-to-date regulatory information)

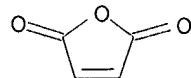
CM 1

CRN 115-11-7
 CMF C4 H8



CM 2

CRN 108-31-6
 CMF C4 H2 O3



965 REFERENCES IN FILE CA (1967 TO DATE)
 242 REFERENCES TO NON-SPECIFIC DERIVATIVES IN FILE CA
 965 REFERENCES IN FILE CAPLUS (1967 TO DATE)

REFERENCE 1: 137:141614

REFERENCE 2: 137:110636

REFERENCE 3: 137:110620

REFERENCE 4: 137:94942

REFERENCE 5: 137:94921

REFERENCE 6: 137:21388

REFERENCE 7: 136:370731

REFERENCE 8: 136:329926

REFERENCE 9: 136:326031

REFERENCE 10: 136:301881

L89 ANSWER 155 OF 155 REGISTRY COPYRIGHT 2002 ACS

RN 25038-20-4 REGISTRY

CN 2-Propenoic acid, polymer with 2-methyl-1-propene (9CI) (CA INDEX NAME)

OTHER CA INDEX NAMES:

CN 1-Propene, 2-methyl-, polymer with 2-propenoic acid (9CI)

OTHER NAMES:

CN Acrylic acid-isobutene copolymer

CN Acrylic acid-isobutene polymer

CN Acrylic acid-isobutylene copolymer

CN Acrylic acid-isobutylene polymer

MF (C4 H8 . C3 H4 O2)x

CI PMS, COM

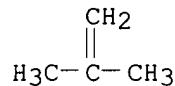
PCT Polyacrylic, Polyolefin

LC STN Files: CA, CAPLUS, IFICDB, IFIPAT, IFIUDB, USPATFULL

CM 1

CRN 115-11-7

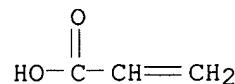
CMF C4 H8



CM 2

CRN 79-10-7

CMF C3 H4 O2



8 REFERENCES IN FILE CA (1967 TO DATE)
 8 REFERENCES IN FILE CAPLUS (1967 TO DATE)

REFERENCE 1: 136:402104
 REFERENCE 2: 130:298230
 REFERENCE 3: 100:140955
 REFERENCE 4: 94:217502
 REFERENCE 5: 87:86070
 REFERENCE 6: 80:49530
 REFERENCE 7: 78:160362
 REFERENCE 8: 77:140924

=> d his

(FILE 'HOME' ENTERED AT 08:30:33 ON 30 AUG 2002)
 SET COST OFF

FILE 'HCAPLUS' ENTERED AT 08:30:53 ON 30 AUG 2002
 E KLUK P/AU
 L1 62 S E3,E7
 E HENNING T/AU
 L2 100 S E3-E5,E14
 E SCHERL F/AU
 L3 8 S E4,E5
 E CLARIANT/PA,CS
 L4 1103 S E3,E4
 L5 168 S L1,L2,L3
 L6 1 S L5 AND ?SUCCIN?
 L7 42 S L4 AND L5
 L8 1 S L1 AND L2,L3
 L9 1 S L2 AND L3
 L10 1 S L8,L9
 SEL AN DN L7 5
 L11 1 S E1-E3
 L12 1 S L10,L11
 SEL RN

FILE 'REGISTRY' ENTERED AT 08:39:19 ON 30 AUG 2002
 L13 8 S E4-E11
 E ETHYLENE/CN
 L14 1 S E3
 E PROPYLENE/CN
 L15 1 S E3
 E BUTYLENE/CN
 L16 1 S E3
 E IOSBUTENE/CN
 E IOSBUTLENE/CN
 E IOSBUTYLENE/CN
 E ISOBUTENE/CN
 L17 1 S E3
 L18 4 S L14-L17
 L19 2 S 108-30-5 OR 110-15-6
 E ACRYLIC ANHYDRIDE/CN
 L20 1 S E3
 E METHACRYLIC ANHYDRIDE/CN

L21 1 S E3
 L22 2 S 79-10-7 OR 79-41-4
 L23 4 S 6915-18-0 OR 110-17-8 OR 110-16-7 OR 108-31-6
 L24 8 S L20-L23
 L25 2 S 25322-68-3 OR 75-21-8
 L26 4 S 56-81-5 OR 102-71-6 OR 112-35-6 OR 100-37-8
 L27 6 S L18 OR L19
 SEL RN
 L28 23796 S E1-E6/CRN
 SEL RN L24
 L29 157109 S E7-E14/CRN
 L30 6 S L25 OR L26
 SEL RN
 L31 45097 S E15-E20/CRN
 L32 4751 S L28 AND L29
 L33 148 S L32 AND L31
 L34 41 S L33 AND 46.150.18/RID
 L35 107 S L33 NOT L34
 L36 19 S C3H6O AND L35
 L37 88 S L35 NOT L36
 L38 51 S L37 AND (C7H12 OR C4H8O OR C3H5CLO OR C3H8O3 OR CH2O OR C7H10
 L39 7 S L37 AND ((C6 OR NC2)/ES OR (SI OR S)/ELS)
 L40 12 S L38 AND 3/NC
 L41 1732 S 556-52-5/CRN
 L42 41 S L38 NOT L41
 L43 9 S L42 AND 3/NC
 L44 6 S L43 NOT (N/ELS OR ACETATE)
 L45 1 S L42 AND NA/ELS
 L46 2 S L42 AND CH4O
 L47 8 S L42 AND C2H4 AND C4H6O2 AND C2H4O
 L48 6 S L47 NOT (C6H10 OR CH2O)
 L49 78 S L37 NOT L41
 L50 37 S L49 NOT L38
 L51 9 S L50 AND (SI/ELS OR 67-56-1/CRN OR DODECYL OR OCTADECANOIC OR
 L52 28 S L50 NOT L51
 L53 8 S 115-11-7/CRN AND (108-30-5 OR 110-15-6)/CRN
 L54 2 S L53 AND 2/NC
 L55 4 S L53 AND 3/NC
 L56 1 S L53 AND H3N
 L57 1 S L55 NOT N/ELS
 L58 4 S L53 NOT L54, L56, L57
 SEL RN L23
 L59 419 S E21-E24/CRN AND 115-11-7/CRN
 L60 8 S L59 AND 2/NC
 L61 27 S L59 AND L31
 L62 7 S L61 AND 3/NC
 L63 4 S L62 NOT (556-52-5/CRN OR C6/ES)
 L64 20 S L61 NOT L62
 L65 8 S L64 AND (NA/ELS OR H3N)
 L66 3 S L65 NOT 556-52-5/CRN
 L67 1 S 115634-83-8
 L68 107 S L59 AND (556-52-5/CRN OR C6/ES)
 L69 291 S L59 NOT L60-L68
 L70 173 S L69 NOT SALT
 L71 118 S L69 NOT L70
 L72 30 S L71 AND 3/NC
 L73 28 S L72 NOT (C2H7NO OR CH5N3)
 L74 71 S L71 AND 4/NC
 L75 6 S L74 AND NA/ELS AND (MG OR CA OR ZN OR AL OR FE OR NI)/ELS
 L76 129 S L70 AND 3/NC
 L77 97 S L76 NOT N/ELS
 L78 92 S L77 NOT UNSPECIFIED
 L79 86 S L78 NOT CYCLODEX?

L80 4 S L20-L22
 SEL RN
 L81 87 S E25-E28/CRN AND 115-11-7/CRN
 L82 4 S L81 AND 2/NC
 L83 5 S L81 AND L31
 L84 78 S L81 NOT L82,L83
 L85 8 S L84 AND NA/ELS
 L86 6 S L85 NOT (N OR F)/ELS
 L87 3 S L86 AND 3/NC
 L88 1 S L86 AND C4H8 AND C4H2O3 AND C3H4O2
 L89 155 S L44,L45,L46,L48,L52,L54,L56,L57,L60,L63,L67,L73,L74,L82,L87,L
 SAV TEMP L89 ALY003656/A

FILE 'HCAPLUS' ENTERED AT 10:34:20 ON 30 AUG 2002

L90 1561 S L89
 L91 1548 S L90 AND (PY<=2000 OR PRY<=2000 OR AY<=2000)
 L92 0 S L4,L5 AND L90
 L93 147 S (COSMETIC# OR PHARMACEUT?)/SC,SX AND L91
 E EMUSIF/CT
 E EMULSIF/CT
 L94 18505 S E4+NT OR E21+NT
 L95 0 S L93 AND L94
 L96 17 S L91 AND L94
 L97 96819 S COSMETIC#/CW OR DRUG DELIVERY SYSTEM#/CT
 L98 25 S L93 AND L97
 L99 11 S L93 AND ?EMULS?
 L100 24696 S L19
 L101 92878 S L17,L18
 L102 9409 S L100,L101 AND L20-L22,L23
 L103 755 S L25,L26 AND L102
 L104 133 S L103 AND (COSMETIC# OR PHARMACEUT?)/SC,SX
 L105 49 S L103 AND (COSMETIC# OR PHARMACEUT?)/CW
 L106 42 S L103 AND DRUG DELIVERY?/CT
 L107 136 S L104-L106
 L108 30 S L4,L5 AND L100,L101
 L109 7 S L108 AND L24
 L110 1 S L5 AND L108
 L111 1 S L110 AND L25,L26
 L112 1879 S L100 AND L25,L26
 L113 4120 S L24 AND L25,L26
 L114 363 S L112,L113 AND COSMETIC#/SC,SC,CW
 L115 800 S L112,L113 AND PHARMACEUT?/SC,SX,CW
 L116 320 S L112,L113 AND DRUG DELIVER?/CT
 L117 142 S L114-L116 AND ?EMULS?
 L118 41 S L117 AND ?SUCCIN?
 L119 12 S L117 AND ?ISOBUT?
 L120 0 S L17 AND L117
 L121 49 S L118,L119
 L122 2 S L121 AND L91
 L123 21 S L98 NOT L99
 SEL DN AN 9
 L124 1 S E1-E3
 L125 2 S L111,L124
 L126 1 S L89 (L) COS/RL
 L127 41 S L89 (L) THU/RL
 L128 24 S L89 AND 62/SC
 L129 65 S L125-L128 AND L1-L12,L90-L128
 L130 65 S L129 AND (PY<=2000 OR PRY<=2000 OR AY<=2000)
 L131 1879 S L19 AND L25,L26
 L132 77 S L131 AND 62/SC
 L133 74 S L132 AND (PY<=2000 OR PRY<=2000 OR AY<=2000)
 L134 4 S L133 AND L94
 L135 12 S L133 AND ?EMULS? NOT L134

SEL DN AN 4 12
L136 2 S L135 AND E4-E9
L137 4 S L125, L136
L138 2 S L130 AND L137
L139 4 S L137, L138
L140 63 S L130 NOT L139
L141 7 S L140 AND (OLEFIN? OR CONETWORK? OR ISOBUTYL? OR MODIF? MALEIC
L142 11 S L139, L141 AND L1-L12, L90-L141
L143 11 S L142 AND (?SUCCIN? OR ?MALEIC? OR ?ISOBUT? OR ?ACRYL? OR ?EMU
L144 4 S L13 AND L143
L145 11 S L143, L144

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FILE 'REGISTRY' ENTERED AT 11:11:38 ON 30 AUG 2002